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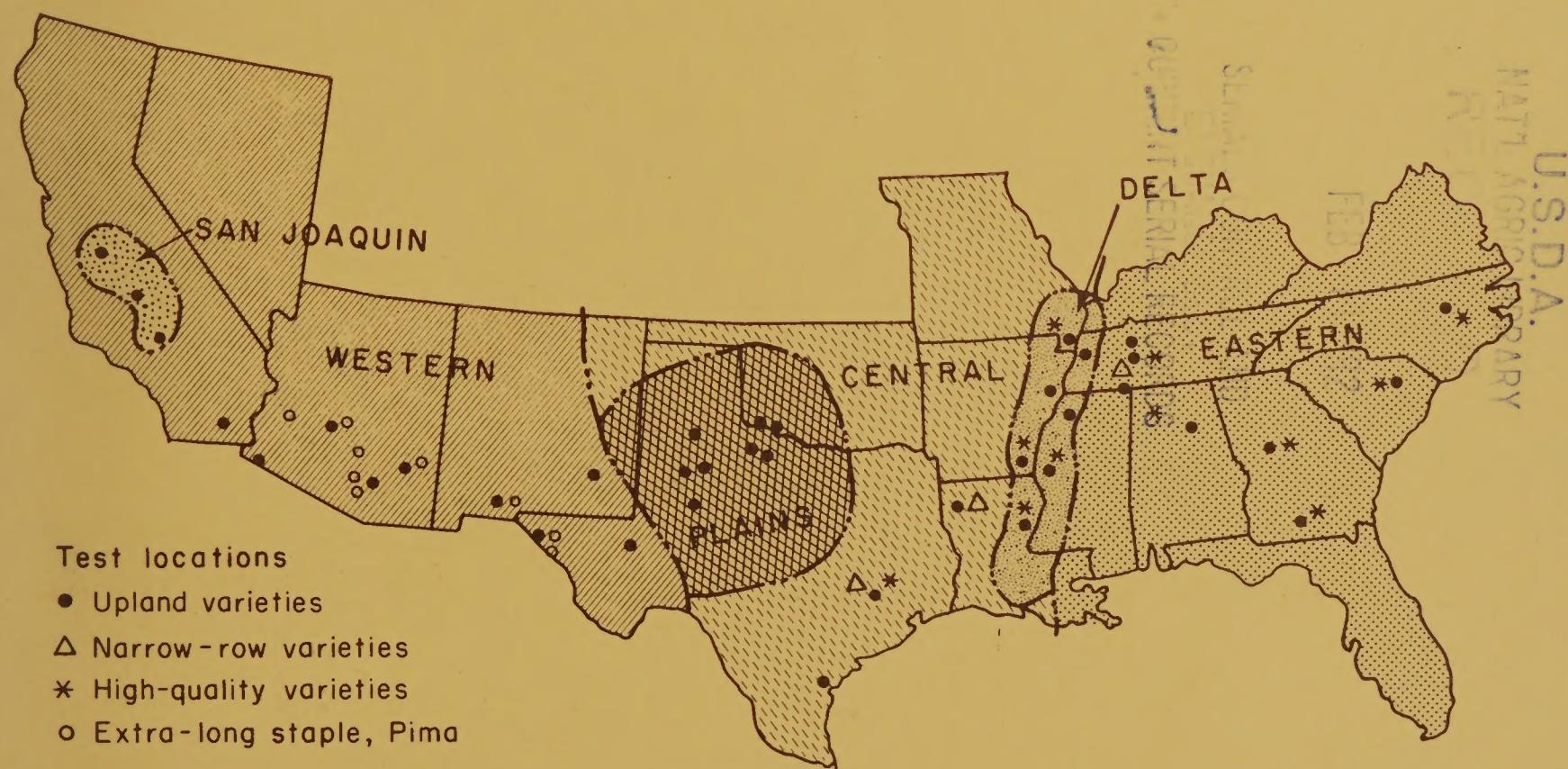
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Regional Cotton Variety Tests, 1975

Yield, Boll, and Spinning Data



Science and Education Administration
U.S. Department of Agriculture

REGIONAL COTTON VARIETY TESTS, 1975

Yield, Boll, and Spinning Data

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the sixth 3-year cycle of testing, which began in 1975, the national standards were Acala 1517-70, Coker 310, Deltapine 16, and Paymaster 909. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of these varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While these details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index are supplied by the cooperating stations. Fiber samples are sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests are made. (Fiber data for 1975 are not yet available and do not appear in this report.) All data are assembled in the Cotton Quality Laboratories, and the data are analyzed at the University of Tennessee Computer Center.

In 1975, the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were tested in all six regions. A narrow-row test to evaluate cotton varieties grown in a configuration of two rows 7 to 9 inches apart in conventional beds was conducted at one location in the Eastern Region and two locations in the Central Region. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region. The

The regional tests and participating stations during the 1975 season were:

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station, Sand Mountain Substation	Crossville, Ala.
Georgia Coastal Plain Experiment Station	Tifton, Ga.
Georgia College Experiment Station	Athens, Ga.
Pee Dee Experiment Station	Florence, S.C.
Upper Coastal Plain Experiment Station	Rocky Mount, N.C.
West Tennessee Agricultural Experiment Station Ames Plantation	Jackson, Tenn.
Milan Field Station	Grand Junction, Tenn. Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:	
Delta Substation	Clarkdale, Ark.
Southeast Branch Experiment Station	Rohwer, Ark.
Mississippi Agricultural and Forestry Experiment Station:	
Delta Branch	Stoneville, Miss.
Off-station test	Tunica, Miss.
Missouri Agricultural Experiment Station,	
Delta Center	Portageville, Mo.
Northeast Louisiana Experiment Station	St. Joseph, La.
West Tennessee Agricultural Experiment Station, off-station test	Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station Texas A&M University: Agricultural Research Station, off-station test Texas Agricultural Experiment Station	Bossier City, La. Nueces County, Tex. College Station, Tex.
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Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:	
Irrigation Experiment Station	Altus, Okla.
Sandy Land Research Station	Mangum, Okla.
Texas A&M University:	
Agricultural Research and Extension Center	
(Chillicothe):	
Dryland test	Chillicothe, Tex.
Irrigated test	Chillicothe, Tex.
Agricultural Research and Extension Center	
(Lubbock):	
Dryland test	Lubbock, Tex.
Irrigated test	Lubbock, Tex.
Off-station tests	Halfway, Tex. Lamesa, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:	
Cotton Research Center	Phoenix, Ariz.
Marana Experimental Farm	Marana, Ariz.
Safford Branch Station	Safford, Ariz.
Yuma Valley Station	Yuma, Ariz.
Imperial Valley Conservation Research Station	Brawley, Calif.
New Mexico Agricultural Experiment Station	Las Cruces, N. Mex.
Southeastern Branch Station	Artesia, N. Mex.
Texas A&M University:	
Agricultural Research Center	El Paso, Tex.
Agricultural Research Station	Pecos, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station
Off-station tests

Five Points, Calif.
Madera, Calif.
Maricopa, Calif.

Narrow-Row Regional Cotton Variety Test

Red River Valley Experiment Station	Bossier City, La.
Texas Agricultural Experiment Station	College Station, Tex.
West Tennessee Agricultural Experiment Station (Ames Plantation)	Grand Junction, Tenn.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station, Tennessee Valley Substation	Belle Mina, Ala.
Arkansas Agricultural Experiment Station, Southeast Branch	Rohwer, Ark.
Georgia College Experiment Station	Athens, Ga.
Georgia Coastal Plain Experiment Station	Tifton, Ga.
Mississippi Agricultural and Forestry Experiment Station, Delta Branch	Stoneville, Miss.
Missouri Agricultural Experiment Station, Delta Center	Portageville, Mo.
Northeast Louisiana Experiment Station	St. Joseph, La.
Pee Dee Experiment Station	Florence, S.C.
Texas Agricultural Experiment Station	College Station, Tex.
Upper Coastal Plain Experiment Station	Rocky Mount, N.C.
West Tennessee Agricultural Experiment Station	Jackson, Tenn.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:

Cotton Research Center
Off-station tests

Phoenix, Ariz.
Coolidge, Ariz.
Wenden, Ariz.
Marana, Ariz.
Marana, Ariz.
Safford, Ariz.
Las Cruces, N. Mex.

Marana Experimental Farm
Off-station test, Clark farm
Safford Branch Station
New Mexico Agricultural Experiment Station

Texas A&M University:
Agricultural Research Center
Off-station test, Maros farm

El Paso, Tex.
Fabens, Tex.

Combed-Yarn Test (Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed-yarn tests of Pima cotton grown at four locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.3- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, seed index, and fiber and yarn data are based on two replications of each variety at all stations.

The tables for each regional test are arranged as follows: In the first two tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. (For some tests, subregional summaries are also included.) Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Boll size. The mass, in grams, per boll of seed cotton.

Classer's designation. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and touch and is made by pulling out and comparing a typical portion of fibers from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. R_d is the percentage of the reflectance; the higher the value, the lighter the cotton.

Lint percent. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Seed index. The mass of 100 seeds, in grams.

Span length. Fiber length measured on the Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5-percent span length is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5-percent span length approximates classer's staple. The 50-percent span length is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Tex. The linear density of fibers, filaments, and yarns, expressed as the mass, in grams, of 1,000 metres of fiber or yarn.

Waste. The difference in mass, expressed as a percentage, of the fed stock and delivered stock. Picker and card waste is the loss in mass during opening, picking, and carding. Comber waste is the loss in mass during combing.

Yarn appearance index. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, expressed in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 652	807 a	5.82 de	41.4 a	10.3 d	4.73 bcd
Coker 1104	777 a	6.60 a	39.2 ef	11.3 bc	4.68 cde
Pee Dee 9241	770 a	5.75 de	39.7 de	11.6 ab	4.61 de
McNair 612	769 a	6.04 bcd	41.0 ab	11.8 bcd	4.82 bc
Coker 8304	769 a	5.70 e	41.1 ab	10.1 d	4.51 ef
Stoneville 603	764 a	5.93 bcde	37.6 h	11.7 ab	4.61 de
Coker 201	748 a	6.22 b	40.0 cd	10.9 bcd	4.62 de
Deltapine 25	747 a	5.89 cde	40.5 bc	11.0 bcd	4.87 ab
Stoneville 213	742 a	5.93 bcde	39.1 ef	11.1 bcd	4.98 a
Deltapine 16	738 a	6.19 bc	38.8 fg	11.1 bcd	4.66 cde
Coker 310	738 a	6.04 bcd	40.1 cd	10.8 bcd	4.61 de
Dixie King 3	695 a	6.53 a	38.4 g	11.4 bc	4.42 f
Paymaster 909	457 b	6.75 a	37.0 h	12.6 a	4.39 f
Acala 1517-70	405 b	5.77 de	36.0 i	11.7 ab	4.07 g

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Deltapine 652	1.14 de	0.53 bc	73.2 ab	8.9 bcde	12.0 cde
Coker 1104	1.17 bc	.55 ab	71.8 bc	8.8 bcde	12.0 cde
Pee Dee 9241	1.15 cde	.56 a	73.3 ab	8.6 e	13.3 b
McNair 612	1.12 ef	.54 bc	70.9 c	8.7 de	12.0 cde
Coker 8304	1.19 ab	.56 a	72.3 bc	8.8 bcde	12.3 c
Stoneville 603	1.13 ef	.54 bc	73.1 abc	8.7 cde	11.8 def
Coker 201	1.14 e	.54 bc	73.0 abc	8.6 de	12.0 cde
Deltapine 25	1.13 ef	.54 bc	72.3 bc	9.1 b	12.2 cd
Stoneville 213	1.11 f	.52 c	72.0 bc	9.4 a	11.6 f
Deltapine 16	1.15 cde	.54 bc	74.7 a	8.8 bcde	11.8 ef
Coker 310	1.20 a	.56 a	72.9 abc	8.9 bcd	12.4 c
Dixie King 3	1.11 f	.52 c	72.4 bc	8.7 cde	12.1 cde
Paymaster 909	1.00 g	.48 d	69.0 d	9.0 b	10.2 g
Acala 1517-70	1.16 cd	.53 bc	71.0 c	8.6 e	14.2 a

Table 2.--Eastern test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tifton, Ga.	1125 a	6.44 ab	39.0 c	11.6 a	4.44 cd
Florence, S.C.	1021 b	5.71 cd	39.9 ab	10.3 b	4.99 a
Milan, Tenn.	735 c	6.52 a	39.5 bc	11.6 a	4.63 b
Jackson, Tenn.	717 c	6.25 b	38.1 e	11.8 a	4.48 cd
Athens, Ga.	623 d	5.76 c	39.4 bc	10.5 b	4.51 cd
Rocky Mount, N.C. .	420 e	5.52 d	40.3 a	10.1 b	4.89 a
Ames Plantation, Tenn.	321 f	6.40 ab	38.7 d	12.2 a	4.56 bc
Crossville, Ala. . .	---	---	---	---	---

Span length (inches)			Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Tifton, Ga.	1.17 a	0.56 a	73.9 a	9.1 ab	12.4 c
Florence, S.C.	1.12 c	.53 c	74.7 a	9.1 b	11.9 d
Milan, Tenn.	1.15 b	.55 b	74.9 a	9.3 ab	12.5 bc
Jackson, Tenn.	1.17 a	.55 b	74.2 a	9.3 a	12.7 b
Athens, Ga.	1.07 d	.52 d	71.5 b	8.6 c	11.9 d
Rocky Mount, N.C. .	1.05 e	.47 e	67.6 d	8.0 d	10.6 e
Ames Plantation, Tenn.	1.18 a	.57 a	71.8 b	9.2 ab	13.1 a
Crossville, Ala. . .	1.14 bc	.52 d	69.5 c	7 8 d	12.0 d

Table 3.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 8304	517 a	5.40	42.7	9.3	4.65
Coker 201	517 a	5.61	41.1	10.1	4.85
Coker 1104	515 a	5.61	39.8	10.1	4.85
Stoneville 603	492 ab	5.54	39.4	10.3	4.80
McNair 612	474 ab	5.40	41.9	9.8	5.30
Coker 310	442 ab	5.32	41.5	9.8	4.75
Deltapine 652	439 ab	4.90	42.6	9.2	5.50
Deltapine 16	429 ab	5.63	40.1	9.9	5.20
Pee Dee 9241	419 ab	5.03	40.1	10.4	5.00
Dixie King 3	416 ab	5.84	39.7	10.2	4.40
Stoneville 213	391 ab	5.31	40.4	10.0	5.60
Deltapine 25	384 b	5.46	41.8	10.0	5.50
Acala 1517-70	230 c	5.71	35.6	11.0	4.05
Paymaster 909	219 c	6.63	37.4	11.9	4.10
Span length (inches)		Colorimeter			
2.5%		50%		R_d	Hunter's <i>b</i> value
Coker 8304	1.10	0.47	67.6	7.8	9.7
Coker 201	1.02	.45	68.7	7.8	9.7
Coker 1104	1.07	.47	66.0	8.3	9.5
Stoneville 603	1.05	.49	70.5	7.9	10.8
McNair 612	1.01	.47	53.8	7.7	10.3
Coker 310	1.12	.49	70.3	8.5	10.5
Deltapine 652	1.05	.49	70.9	8.3	10.5
Deltapine 16	1.04	.47	73.4	7.7	10.8
Pee Dee 9241	1.05	.48	71.8	8.1	12.5
Dixie King 3	1.04	.44	67.5	7.7	11.3
Stoneville 213	1.01	.45	68.7	8.5	10.3
Deltapine 25	1.08	.50	69.0	8.2	10.9
Acala 1517-70	1.10	.48	53.8	7.9	14.4
Paymaster 909 .....	.97	.42	60.5	7.8	8.2

Table 4.--Eastern test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Pee Dee 9241	1172 a	5.41	40.6	10.3	5.00
Deltapine 25	1153 a	5.70	41.6	10.1	5.20
Stoneville 213	1136 ab	5.46	40.6	9.9	5.40
Coker 8304	1134 ab	5.54	41.9	9.6	5.20
Coker 310	1120 abc	5.57	40.4	10.0	5.05
Coker 1104	1103 abc	5.93	39.3	10.5	5.20
Deltapine 652	1100 abcd	5.50	43.1	9.2	5.10
Coker 201	1073 abcde	5.83	40.3	10.3	5.05
Deltapine 16	1021 bcde	6.27	40.3	10.2	5.20
Stoneville 603	1002 cde	5.58	37.8	10.9	4.85
McNair 612	984 de	5.65	40.5	10.0	5.10
Dixie King 3	964 e	6.05	38.3	11.0	4.65
Acala 1517-70	683 f	5.53	37.0	10.5	4.20
Paymaster 909	652 f	5.96	36.8	12.3	4.75
Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)	
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Pee Dee 9241	1.09	0.54	77.2	9.0	13.0
Deltapine 25	1.12	.53	74.1	9.9	12.1
Stoneville 213	1.13	.55	74.0	9.5	11.3
Coker 8304	1.21	.58	75.5	9.1	12.4
Coker 310	1.18	.54	73.8	8.7	11.9
Coker 1104	1.16	.55	75.0	9.1	12.0
Deltapine 652	1.12	.53	76.8	9.1	11.4
Coker 201	1.14	.54	75.5	8.7	12.0
Deltapine 16	1.12	.53	77.3	9.0	11.3
Stoneville 603	1.14	.55	75.5	9.1	11.8
McNair 612	1.15	.53	74.8	9.3	11.7
Dixie King 3	1.13	.53	74.9	9.4	12.0
Acala 1517-70	1.10	.49	70.6	8.4	14.2
Paymaster 909 .....	.99	.48	70.5	9.3	10.1

Table 5.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Pee Dee 9241	819 a	5.92	40.5	11.2	4.45
McNair 612	748 ab	6.22	41.1	10.0	4.75
Deltapine 25	707 abc	5.28	42.1	10.4	4.70
Stoneville 213	706 abc	5.76	38.5	10.8	4.50
Coker 1104	704 abc	6.58	39.2	11.1	4.65
Coker 201	703 abc	6.16	40.9	10.5	4.70
Deltapine 652	680 abc	5.56	42.4	9.4	4.60
Coker 310	601 bc	5.94	39.7	9.9	4.55
Deltapine 16	590 c	5.30	37.7	10.1	4.40
Stoneville 603	589 c	5.88	36.7	11.5	4.65
Coker 8304	579 c	5.36	40.6	9.5	4.20
Dixie King 3	567 c	6.34	38.1	10.9	4.45
Acala 1517-70	385 d	5.36	36.0	11.1	4.05
Paymaster 909	345 d	5.02	38.7	10.6	4.50
Span length (inches)		Colorimeter			Yarn
2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value		tenacity (cN/tex)
Pee Dee 9241	1.11	0.54	73.8	8.4	13.3
McNair 612	1.06	.52	73.1	8.6	12.0
Deltapine 25	1.08	.52	71.0	9.0	11.9
Stoneville 213	1.05	.51	70.5	9.1	11.8
Coker 1104	1.12	.53	72.2	8.5	12.5
Coker 201	1.09	.53	72.9	8.5	12.0
Deltapine 652	1.07	.54	70.4	8.6	11.7
Coker 310	1.22	.57	72.0	8.4	12.2
Deltapine 16	1.13	.53	73.1	8.6	11.3
Stoneville 603	1.07	.50	70.5	8.3	11.1
Coker 8304	1.05	.55	71.3	9.0	12.3
Dixie King 3	1.03	.51	72.2	9.1	12.2
Acala 1517-70	1.08	.51	72.1	7.9	14.0
Paymaster 909 .....	.93	.44	66.0	8.6	9.4

Table 6.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading	
Deltapine 652	1257 a	5.93	41.3	10.0	4.50	
Coker 1104	1233 a	6.77	39.1	11.8	4.35	
Coker 201	1231 a	6.70	39.4	11.7	4.55	
Coker 8304	1198 a	5.97	40.2	10.9	4.45	
McNair 612	1193 a	6.30	40.4	11.7	4.55	
Stoneville 603	1185 a	6.35	37.4	12.1	4.45	
Pee Dee 9241	1171 a	5.73	39.7	11.6	4.20	
Stoneville 213	1144 a	6.28	39.4	11.0	4.70	
Deltapine 25	1139 a	6.34	39.9	11.6	4.65	
Deltapine 16	1135 a	6.68	38.1	11.3	4.50	
Coker 310	1132 a	6.67	40.2	11.5	4.65	
Dixie King 3	1106 a	6.70	38.0	11.7	4.25	
Acala 1517-70	860 b	6.61	36.3	12.7	4.05	
Paymaster 909	762 b	7.17	37.4	13.2	4.40	
Span length (inches)		Colorimeter			Yarn	
2.5%		50%		R_d	Hunter's <i>b</i> value	tenacity (cN/tex)
Deltapine 652	1.14	0.54	74.5	9.3	12.1	
Coker 1104	1.21	.57	72.5	9.0	12.7	
Coker 201	1.19	.59	73.6	8.8	12.4	
Coker 8304	1.26	.61	73.5	9.1	13.1	
McNair 612	1.18	.57	73.8	9.1	12.3	
Stoneville 603	1.19	.57	74.9	8.8	11.7	
Pee Dee 9241	1.20	.57	73.8	8.9	13.5	
Stoneville 213	1.13	.53	73.4	10.0	11.5	
Deltapine 25	1.16	.56	74.3	9.3	12.2	
Deltapine 16	1.20	.57	76.7	9.2	11.9	
Coker 310	1.18	.58	73.0	9.4	12.3	
Dixie King 3	1.14	.55	74.9	8.9	11.9	
Acala 1517-70	1.20	.58	73.4	9.0	14.9	
Paymaster 909	1.05	.53	72.3	9.1	10.7	

Table 7.--Eastern test: Spinning data for Crossville, Ala.*

Variety	Micro-naire reading	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
		2.5%	50%	R_d	Hunter's b value	
Coker 1104	4.35	1.20	0.55	69.7	7.8	11.7
Pee Dee 9241	4.40	1.16	.55	70.5	7.8	13.2
Coker 8304	4.35	1.21	.54	69.7	7.9	12.4
McNair 612	4.40	1.15	.54	70.5	8.0	11.6
Stoneville 603	4.35	1.13	.54	71.1	7.7	11.8
Dixie King 3	4.35	1.11	.53	67.1	7.3	12.0
Coker 310	4.35	1.20	.53	71.0	7.9	12.6
Deltapine 16	4.55	1.16	.53	71.8	7.6	11.4
Coker 201	4.20	1.15	.52	70.6	7.7	11.5
Deltapine 652	4.35	1.16	.51	70.8	7.9	12.4
Deltapine 25	4.55	1.13	.51	68.7	8.0	12.3
Stoneville 213	4.70	1.11	.51	69.9	8.0	11.6
Acala 1517-70	4.50	1.15	.48	66.6	8.2	12.8
Paymaster 909	4.20	.98	.46	66.0	9.1	10.6

* No yield or boll data available.

Table 8.--Eastern test: Yield, boll, and spinning data for Ames Plantation, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 612	407 a	6.05	41.5	11.8	5.00
Deltapine 652	406 a	5.24	40.3	11.8	4.60
Pee Dee 9241	376 ab	5.94	39.3	13.0	4.60
Stoneville 603	365 abc	6.13	36.8	12.8	4.55
Coker 310	353 abcd	6.10	39.7	12.2	4.30
Dixie King 3	345 abcd	7.04	38.0	12.3	4.50
Coker 8304	345 abcd	5.82	40.9	11.0	4.50
Deltapine 25	342 bcd	6.33	39.2	11.4	4.70
Deltapine 16	336 bcd	6.61	38.7	12.2	4.55
Coker 201	309 cd	6.76	39.7	11.8	4.60
Stoneville 213	302 cd	6.25	37.8	12.4	4.95
Coker 1104	293 d	6.70	38.6	11.9	4.50
Paymaster 909	199 e	7.71	36.5	13.9	4.55
Acala 1517-70	115 f	5.91	35.6	13.1	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
McNair 612	1.17	0.57	71.6	8.0	13.3
Deltapine 652	1.20	.57	73.6	8.9	12.8
Pee Dee 9241	1.20	.60	70.2	8.9	13.9
Stoneville 603	1.16	.57	70.6	9.6	12.9
Coker 310	1.24	.56	73.3	9.2	13.8
Dixie King 3	1.16	.58	72.9	9.3	13.3
Coker 8304	1.24	.59	71.7	9.3	13.6
Deltapine 25	1.16	.56	73.1	8.9	13.1
Deltapine 16	1.20	.58	73.4	9.2	12.8
Coker 201	1.19	.56	71.9	9.0	13.0
Stoneville 213	1.16	.56	71.5	10.5	12.4
Coker 1104	1.23	.58	71.4	9.5	13.1
Paymaster 909	1.02	.52	70.2	9.7	11.4
Acala 1517-70	1.22	.59	70.6	8.7	15.0

Table 9.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 603	903 a	6.06	37.2	12.4	4.80
Deltapine 652	850 ab	6.25	39.2	11.3	4.40
Dixie King 3	837 ab	6.95	38.1	11.6	4.30
Deltapine 16	817 ab	6.16	37.6	11.8	4.35
McNair 612	805 ab	6.36	40.4	11.7	4.80
Coker 1104	798 ab	6.62	38.7	11.8	4.65
Coker 310	775 abc	6.18	39.4	11.1	4.55
Stoneville 213	759 abc	5.98	38.2	11.9	4.90
Coker 8304	758 abc	5.89	40.1	10.5	4.30
Coker 201	747 abc	6.24	39.3	11.5	4.55
Deltapine 25	694 bc	6.13	38.5	11.8	4.70
Pee Dee 9241	626 c	6.09	37.6	12.6	4.60
Paymaster 909	428 d	7.15	35.1	13.1	4.25
Acala 1517-70	243 e	5.42	34.6	12.6	3.75

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Stoneville 603	1.15	0.55	76.7	9.1	12.6
Deltapine 652	1.21	.56	73.0	9.6	12.3
Dixie King 3	1.13	.54	74.9	9.0	13.1
Deltapine 16	1.18	.55	75.6	8.3	12.4
McNair 612	1.16	.56	75.0	9.4	12.5
Coker 1104	1.20	.56	74.2	9.5	12.9
Coker 310	1.23	.58	74.5	9.3	13.2
Stoneville 213	1.14	.54	73.5	9.9	12.0
Coker 8304	1.24	.57	74.0	9.1	12.5
Coker 201	1.15	.54	75.4	9.3	12.6
Deltapine 25	1.16	.55	72.9	9.8	13.1
Pee Dee 9241	1.21	.59	74.1	9.3	13.9
Paymaster 909	1.06	.52	72.4	9.4	11.1
Acala 1517-70	1.21	.55	72.8	9.2	14.3

Table 10.--Eastern test: Yield, boll, and spinning data for Milan, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 652	917 a	6.41	40.9	11.1	4.80
Coker 8304	851 ab	5.92	41.7	10.0	4.45
Deltapine 16	837 ab	6.67	38.9	12.0	4.60
Stoneville 603	813 abc	6.01	38.0	12.1	4.55
Pee Dee 9241	810 abc	6.18	39.9	12.4	4.65
Deltapine 25	807 abc	6.03	40.7	11.5	5.00
Coker 1104	790 abc	8.06	39.5	11.8	4.90
McNair 612	770 abcd	6.35	41.5	11.1	4.70
Stoneville 213	754 abcd	6.52	39.1	11.9	5.15
Coker 310	744 bcde	6.55	40.0	11.0	4.70
Coker 201	658 cde	6.30	39.6	11.0	4.50
Dixie King 3	629 de	6.83	38.8	12.0	4.50
Paymaster 909	595 e	7.65	37.2	13.3	4.40
Acala 1517-70	322 f	5.89	37.0	11.1	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 652	1.18	0.57	75.7	9.3	12.4
Coker 8304	1.22	.57	75.1	8.8	12.8
Deltapine 16	1.16	.55	76.6	10.1	12.4
Stoneville 603	1.13	.54	74.9	9.1	12.2
Pee Dee 9241	1.18	.58	74.8	9.0	13.6
Deltapine 25	1.14	.55	75.5	9.2	12.4
Coker 1104	1.18	.54	73.8	9.1	12.1
McNair 612	1.13	.54	75.0	9.1	12.3
Stoneville 213	1.14	.55	74.4	10.0	11.8
Coker 310	1.21	.58	75.2	10.1	12.8
Coker 201	1.16	.54	75.8	9.1	12.5
Dixie King 3	1.11	.54	74.7	9.0	12.6
Paymaster 909	1.01	.50	74.0	9.1	10.7
Acala 1517-70	1.17	.54	74.0	9.5	14.4

DELTA REGIONAL COTTON VARIETY TEST

Table 11.--Delta test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 652	857 a	5.54 c	40.6 a	10.8 e	4.64 c
Deltapine 16	817 a	5.98 b	38.7 b	11.7 cd	4.67 bc
Delcott 277	811 a	6.40 a	38.3 b	13.0 b	4.12 d
Stoneville 213	761 ab	5.78 bc	38.5 b	11.9 c	4.97 a
Stoneville 256	726 ab	5.76 bc	38.6 b	11.6 cd	4.81 abc
Coker 310	687 bc	5.93 b	39.9 a	11.4 d	4.67 bc
Brycot 4	676 bc	5.68 bc	38.1 bc	11.8 cd	4.72 bc
Deltapine 25	569 cd	5.55 c	40.0 a	11.5 cd	4.85 ab
Paymaster 909	507 de	6.69 a	37.4 c	14.2 a	4.74 bc
Acala 1517-70	416 e	5.59 c	36.2 d	13.1 b	4.25 d

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Deltapine 652	1.17 cd	0.54 cd	74.8 b	8.1 e	11.9 cde
Deltapine 16	1.17 cd	.55 b	75.9 a	8.2 de	11.9 de
Delcott 277	1.20 ab	.57 a	73.8 cd	8.7 ab	13.1 b
Stoneville 213	1.14 e	.54 cd	73.8 cd	8.8 a	11.3 f
Stoneville 256	1.16 de	.53 de	74.3 bc	8.3 de	11.4 f
Coker 310	1.22 a	.56 ab	73.2 de	8.3 cde	12.3 c
Brycot 4	1.14 e	.52 de	74.2 bc	8.2 de	11.5 ef
Deltapine 25	1.15 de	.55 bc	74.6 b	8.4 bcd	12.2 cd
Paymaster 909	1.05 f	.52 e	72.7 e	8.6 abc	11.5 ef
Acala 1517-70	1.18 bc	.55 ab	73.3 de	8.5 bcd	14.3 a

Table 12.--Delta test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Clarkdale, Ark. . .	1233 a	5.76 b	37.9 c	---	4.94 a
Ridgely, Tenn.	712 b	6.48 a	39.6 a	12.5 a	4.85 a
St. Joseph, La.	647 c	5.70 bc	39.3 a	12.0 b	4.64 b
Stoneville, Miss. .	637 c	5.67 bc	38.4 bc	12.1 b	4.61 b
Rohwer, Ark.	614 c	5.46 c	37.9 c	---	4.68 b
Portageville, Mo. .	544 d	6.26 a	38.7 b	11.7 c	4.14 c
Tunica, Miss.	465 e	5.91 b	38.6 b	12.1 b	4.66 b

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	\bar{R}_d	Hunter's b value	
Clarkdale, Ark. . .	1.11 d	0.51 e	74.7 bc	8.4 b	12.1 de
Ridgely, Tenn.	1.15 c	.53 d	74.5 c	8.9 a	11.8 e
St. Joseph, La.	1.17 bc	.55 c	74.8 bc	8.9 a	12.5 bc
Stoneville, Miss. .	1.22 a	.59 a	75.3 b	8.4 b	12.9 a
Rohwer, Ark.	1.16 bc	.54 d	77.1 a	8.5 b	12.3 cd
Portageville, Mo. .	1.12 d	.48 f	69.3 e	8.4 b	10.6 f
Tunica, Miss.	1.18 b	.57 b	72.7 d	7.4 c	12.8 ab

Table 13.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Delcott 277	768 a	6.90	38.2	13.4	3.90
Stoneville 213	649 ab	6.40	38.1	12.0	4.25
Deltapine 652	639 b	5.70	39.7	10.8	4.30
Brycot 4	574 bc	6.05	37.7	11.9	4.20
Stoneville 256	564 bc	6.15	38.4	11.3	4.25
Deltapine 16	540 bc	6.10	38.8	11.3	4.30
Coker 310	522 bc	5.90	41.0	10.7	4.05
Deltapine 25	460 cd	5.70	39.8	11.0	4.30
Paymaster 909	388 d	7.35	38.9	12.7	3.95
Acala 1517-70	338 d	6.30	36.3	13.4	3.95

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Delcott 277	1.17	0.51	69.8	8.5	11.4
Stoneville 213	1.09	.48	69.2	8.7	10.1
Deltapine 652	1.13	.48	70.3	8.1	10.2
Brycot 4	1.10	.47	69.2	8.5	10.0
Stoneville 256	1.11	.47	69.6	8.4	9.9
Deltapine 16	1.15	.50	72.1	8.3	10.2
Coker 310	1.18	.48	67.5	8.6	10.6
Deltapine 25	1.10	.48	70.5	8.0	10.9
Paymaster 909	1.08	.48	68.1	8.5	11.4
Acala 1517-70	1.09	.49	67.4	8.3	11.0

Table 14.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	836 a	6.36	39.5	12.5	5.10
Delcott 277	816 a	7.10	40.1	12.7	4.30
Stoneville 256	783 a	6.18	40.4	11.6	5.00
Brycot 4	782 a	6.16	39.8	12.1	5.00
Coker 310	768 a	6.39	41.4	11.7	5.00
Deltapine 652	760 a	6.27	41.3	11.3	4.95
Deltapine 16	738 a	6.50	39.1	12.4	4.95
Deltapine 25	735 a	6.25	40.9	12.0	5.00
Paymaster 909	528 b	7.66	36.7	15.1	4.70
Acala 1517-70	375 c	5.97	37.3	13.7	4.50

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Stoneville 213	1.14	0.54	73.9	9.6	10.5
Delcot 277	1.20	.56	73.5	9.6	12.5
Stoneville 256	1.15	.51	75.0	9.0	11.4
Brycot 4	1.14	.52	74.2	8.7	11.3
Coker 310	1.21	.55	74.4	8.8	12.1
Deltapine 652	1.17	.54	75.3	8.7	11.6
Deltapine 16	1.16	.54	76.2	8.3	11.6
Deltapine 25	1.15	.55	75.6	9.0	11.9
Paymaster 909	1.02	.50	73.3	9.2	10.5
Acala 1517-70	1.19	.55	74.1	8.6	14.4

Table 15.--Delta test: Yield, boll, and spinning data for Clarkedale, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	1644 a	6.09	38.0	---	4.85
Deltapine 652	1630 a	5.46	39.5	---	5.70
Delcott 277	1338 b	6.44	37.0	---	5.20
Stoneville 213	1267 bc	5.27	38.0	---	5.50
Stoneville 256	1171 bcd	5.81	38.0	---	5.15
Paymaster 909	1165 bcd	6.43	38.5	---	5.30
Coker 310	1116 bcd	6.65	37.5	---	4.95
Brycot 4	1034 bcd	5.80	38.0	---	5.00
Acala 1517-70	1022 cd	4.32	35.0	---	4.60
Deltapine 25	948 d	5.36	39.5	---	5.20

Span length (inches)			Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 16	1.13	0.53	76.7	8.1	11.8
Deltapine 652	1.13	.51	76.5	8.5	11.7
Delcott 277	1.15	.54	74.5	8.8	13.3
Stoneville 213	1.11	.52	75.5	8.9	11.5
Stoneville 256	1.10	.49	74.5	8.1	10.9
Paymaster 909 .....	.97	.50	72.4	8.9	11.5
Coker 310	1.16	.53	73.3	8.3	12.3
Brycot 4	1.08	.48	74.9	8.1	11.3
Acala 1517-70	1.14	.53	73.6	8.5	15.0
Deltapine 25	1.13	.54	75.4	8.2	11.9

Table 16.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 652	591 a	5.55	41.0	10.7	4.50
Deltapine 16	541 ab	5.90	39.1	11.3	4.50
Stoneville 256	520 ab	5.75	38.4	11.6	4.90
Deltapine 25	518 ab	5.70	40.0	11.4	4.80
Delcott 277	488 ab	6.32	38.5	13.1	4.20
Stoneville 213	484 ab	5.59	38.4	11.7	5.20
Coker 310	477 b	5.98	39.7	11.8	4.65
Brycot 4	376 c	5.44	37.9	11.5	4.45
Acala 1517-70	348 c	6.18	35.9	13.6	4.45
Paymaster 909	304 c	6.71	37.2	14.9	4.95

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Deltapine 652	1.19	0.57	72.3	6.7	12.6
Deltapine 16	1.22	.60	74.7	7.3	13.0
Stoneville 256	1.18	.55	73.6	6.8	11.8
Deltapine 25	1.18	.58	72.7	7.6	12.3
Delcott 277	1.22	.61	74.0	7.9	14.1
Stoneville 213	1.15	.55	71.8	7.6	11.8
Coker 310	1.24	.58	72.0	7.5	12.9
Brycot 4	1.17	.55	72.4	7.0	11.9
Acala 1517-70	1.25	.61	73.0	7.7	15.5
Paymaster 909	1.04	.54	71.0	8.1	12.5

Table 17.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Delcott 277	724 a	5.62	38.0	---	4.15
Stoneville 256	702 a	5.12	37.5	---	4.80
Deltapine 652	681 a	5.03	40.5	---	4.75
Stoneville 213	681 a	5.54	38.5	---	4.85
Deltapine 25	680 a	5.03	40.0	---	4.95
Coker 310	656 a	5.37	39.0	---	4.85
Deltapine 16	635 a	5.45	37.0	---	4.75
Brycot 4	598 a	5.47	37.5	---	4.95
Paymaster 909	457 b	6.31	36.5	---	4.80
Acala 1517-70	324 b	5.66	35.0	---	4.00

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Delcott 277	1.20	0.57	75.7	8.7	12.9
Stoneville 256	1.16	.53	77.5	8.6	11.5
Deltapine 652	1.17	.53	77.8	8.4	12.2
Stoneville 213	1.15	.54	77.6	8.7	11.4
Deltapine 25	1.15	.55	78.1	8.6	12.4
Coker 310	1.23	.57	76.1	8.1	12.5
Deltapine 16	1.18	.55	78.4	8.4	11.9
Brycot 4	1.16	.54	77.5	8.2	11.9
Paymaster 909	1.07	.51	76.6	8.6	11.6
Acala 1517-70	1.19	.56	75.7	8.7	15.2

Table 18.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 652	939 a	5.68	41.6	10.6	4.70
Deltapine 16	837 ab	6.12	39.0	11.9	4.80
Delcott 277	763 bc	6.29	37.7	13.2	4.00
Stoneville 213	722 c	5.61	38.6	11.8	4.90
Stoneville 256	712 c	5.50	38.1	11.9	4.75
Deltapine 25	702 c	5.25	39.3	11.5	4.80
Brycot 4	651 cd	5.32	37.3	11.8	4.60
Coker 310	565 d	5.65	40.0	11.6	4.65
Paymaster 909	245 e	5.80	36.6	14.1	4.70
Acala 1517-70	228 e	5.24	35.8	13.0	4.20

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 652	1.22	0.59	75.2	7.8	12.9
Deltapine 16	1.21	.59	77.2	8.3	12.6
Delcott 277	1.27	.64	74.5	8.6	13.8
Stoneville 213	1.19	.58	74.7	8.8	11.9
Stoneville 256	1.22	.59	74.8	8.1	12.3
Deltapine 25	1.20	.59	76.0	8.6	13.2
Brycot 4	1.21	.59	76.4	8.3	12.4
Coker 310	1.30	.64	74.8	8.3	13.6
Paymaster 909	1.13	.57	74.5	8.4	12.3
Acala 1517-70	1.24	.58	74.7	8.8	14.7

Table 19.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	783 a	5.75	39.9	11.6	4.60
Delcott 277	781 a	6.17	39.1	12.5	4.10
Deltapine 652	761 a	5.12	41.1	10.5	4.60
Brycot 4	715 a	5.55	38.6	12.0	4.85
Coker 310	702 a	5.60	40.7	11.4	4.55
Stoneville 213	687 a	5.68	38.3	11.9	5.00
Deltapine 25	676 a	5.34	41.0	11.6	4.95
Stoneville 256	633 a	5.81	39.3	11.8	4.85
Paymaster 909	460 b	6.58	37.7	14.3	4.80
Acala 1517-70	275 c	5.45	38.0	12.7	4.10

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 16	1.19	0.56	76.0	8.8	12.0
Delcott 277	1.20	.56	74.9	9.1	13.7
Deltapine 652	1.18	.54	76.7	8.6	12.6
Brycot 4	1.16	.54	75.0	8.8	12.2
Coker 310	1.22	.58	74.3	8.8	12.5
Stoneville 213	1.16	.55	74.3	9.3	11.8
Deltapine 25	1.18	.57	74.4	9.1	12.7
Stoneville 256	1.19	.56	74.9	9.0	11.9
Paymaster 909	1.02	.53	73.1	8.8	11.1
Acala 1517-70	1.20	.57	74.5	8.8	14.5

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Table 20.--Central test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	961 a	5.47 bc	40.3 ab	10.8 b	5.20 ab
Coker 310	934 a	5.65 b	40.7 a	11.2 b	5.03 b
Stoneville 213	894 ab	5.16 c	40.7 a	10.8 b	5.45 a
Tamcot Sp 37	824 ab	5.48 bc	38.0 b	11.4 b	4.36 c
Quapaw	813 ab	6.25 a	36.5 c	12.9 a	5.28 ab
Stoneville 7A	807 ab	5.18 bc	40.2 ab	10.4 b	5.27 ab
Acala 1517-70	667 bc	5.54 bc	37.3 c	13.3 a	4.45 c
Paymaster 909	541 c	6.10 a	39.1 b	13.2 a	5.33 ab

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 16	1.12 bc	0.54 ab	73.6 a	8.1 c	11.9 bc
Coker 310	1.19 a	.56 a	71.0 ab	8.6 ab	12.4 c
Stoneville 213	1.09 c	.52 bcd	70.2 b	8.6 ab	11.6 cd
Tamcot Sp 37	1.12 bc	.51 cd	73.6 a	7.5 d	11.2 d
Quapaw	1.05 d	.52 cd	71.4 ab	8.2 bc	12.4 b
Stoneville 7A	1.14 b	.54 bcd	70.1 b	8.1 c	11.5 cd
Acala 1517-70	1.13 b	.54 bc	71.6 ab	8.3 abc	14.6 a
Paymaster 909	1.00 e	.51 d	70.2 b	8.7 a	11.4 cd

Table 21.--Central test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Bossier City, La. ...	933 a	6.49 a	41.5 a	11.6 a	5.33 a
Nueces County, Tex. .	752 b	5.30 b	40.0 a	11.6 a	5.12 b
College Station, Tex.	746 b	5.19 b	36.3 b	12.2 a	4.69 c

Location	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Bossier City, La. ...	1.10 b	0.53 b	74.3 a	8.6 a	12.5 a
Nueces County, Tex. .	1.06 c	.51 c	70.6 b	8.5 a	11.4 b
College Station, Tex.	1.15 a	.56 a	70.1 b	7.7 b	12.5 a

Table 22.--Central test: Yield, boll, and spinning data for Bossier City, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	1160 a	6.28	43.6	11.3	5.35
Deltapine 16	1135 a	6.47	43.0	10.8	5.60
Stoneville 213	1003 ab	5.72	43.9	10.5	5.95
Tamcot Sp 37	945 b	6.10	41.1	11.4	4.50
Acala 1517-70	899 b	6.33	38.7	12.1	4.90
Quapaw	853 b	7.16	39.3	12.7	5.45
Paymaster 909	534 c	7.37	41.4	12.6	5.60

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Coker 310	1.18	0.57	74.0	8.7	12.9
Deltapine 16	1.12	.55	76.6	8.7	11.9
Stoneville 213	1.08	.50	73.4	8.9	11.4
Tamcot Sp 37	1.12	.52	76.1	7.7	11.6
Acala 1517-70	1.13	.55	74.5	8.8	15.2
Quapaw	1.05	.52	73.9	8.6	12.8
Paymaster 909	1.01	.49	71.7	8.8	11.8

Table 23.--Central test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Quapaw	890 a	5.90	33.8	14.0	5.20
Deltapine 16	872 a	4.82	37.0	11.0	4.70
Coker 310	834 a	5.41	36.9	11.7	4.65
Stoneville 213	816 a	4.79	37.7	11.1	5.00
Tamcot Sp 37	788 a	5.50	37.0	11.9	4.20
Stoneville 7A	737 ab	5.10	37.6	10.7	5.05
Acala 1517-70	522 b	5.10	34.4	12.7	3.70
Paymaster 909	507 b	4.88	35.9	14.6	5.05

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Quapaw	1.10	0.55	69.7	7.8	12.8
Deltapine 16	1.18	.57	71.9	7.2	12.7
Coker 310	1.24	.59	69.6	8.2	12.5
Stoneville 213	1.16	.57	67.4	8.1	12.4
Tamcot Sp 37	1.17	.54	71.9	7.1	11.4
Stoneville 7A	1.20	.56	68.3	7.3	12.2
Acala 1517-70	1.18	.55	72.0	7.6	15.2
Paymaster 909	1.02	.53	69.6	8.5	11.4

Table 24.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	877 a	5.14	40.9	10.7	5.30
Stoneville 7A	876 a	5.26	42.8	10.1	5.50
Stoneville 213	862 a	4.98	40.7	10.8	5.40
Coker 310	807 ab	5.25	41.7	10.7	5.10
Tamcot Sp 37	739 bc	4.84	38.9	10.9	4.40
Quapaw	695 c	5.71	36.4	12.2	5.20
Paymaster 909	581 d	6.07	39.9	12.4	5.35
Acala 1517-70	579 d	5.21	39.0	15.1	4.75

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 16	1.07	0.52	72.2	8.4	11.2
Stoneville 7A	1.09	.51	71.9	8.9	10.9
Stoneville 213	1.05	.50	70.0	8.8	11.1
Coker 310	1.14	.54	69.5	8.9	11.8
Tamcot Sp 37	1.06	.49	72.8	7.8	10.5
Quapaw	1.01	.49	70.7	8.3	11.6
Paymaster 90997	.51	69.3	9.0	11.2
Acala 1517-70	1.09	.51	68.3	8.5	13.5

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Table 25.--Plains test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	412 a	5.52 de	36.2 abc	11.5 fgh	3.68 h
Tamcot Sp 21	405 a	5.60 de	36.4 abc	11.7 defg	3.74 gh
Westburn 70	374 ab	5.26 efg	34.8 c	11.2 gh	3.75 fgh
Deltapine 16	365 ab	4.97 g	37.2 ab	10.8 h	4.16 abcd
Coker 5110	355 abc	5.43 def	37.2 ab	11.2 gh	4.02 cdefg
Paymaster 202	355 abc	5.79 cd	36.3 abc	12.2 cde	4.15 bcd
Paymaster 111A	348 abc	6.44 a	35.4 bc	12.4 bcd	4.42 a
Lankart 611	348 abc	6.22 ab	36.4 abc	13.0 ab	4.02 cdefg
Paymaster 909	338 abcd	6.02 bc	38.0 a	12.1 cdef	4.26 abc
Coker 310	336 abcd	5.10 fg	36.2 abc	11.0 gh	4.15 bcd
Lockett 4789A	335 abcd	5.41 def	34.7 c	11.6 efg	4.01 cdefg
Paymaster 18	329 bcd	5.10 fg	34.9 c	11.1 gh	4.33 ab
Lockett BXL	326 bcd	5.58 de	35.3 c	12.0 cdef	3.95 defgh
Acala 1517-70	322 bcd	5.23 efg	37.1 ab	12.6 bc	4.05 cde
Stripper-Cala-S ...	310 bcd	5.63 de	32.9 d	11.6 efg	3.96 defg
Lankart LX 571	283 cd	6.37 ab	35.0 c	13.3 a	4.20 abcd
Gregg 35 W	258 d	5.55 de	34.9 c	12.2 cde	3.78 efg

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot 788	1.06 c	0.48 cd	72.5 bcde	8.0 abcde	11.8 def
Tamcot Sp 21	1.08 bc	.49 bc	73.7 a	7.6 g	12.5 c
Westburn 70	1.07 c	.48 cd	73.5 ab	7.7 fg	11.3 fg
Deltapine 16	1.10 b	.50 bc	72.8 abc	7.9 bcdefg	11.6 f
Coker 5110	1.15 a	.52 a	71.2 fgh	7.8 defg	12.1 cde
Paymaster 202	1.01 d	.48 cd	72.6 abcd	8.0 abcde	11.7 ef
Paymaster 111A	1.00 de	.48 d	72.1 cdefg	7.8 efg	11.1 gh
Lankart 611	1.01 d	.47 de	72.3 cdef	8.2 a	10.5 i
Paymaster 909 .....	.97 e	.47 d	71.0 gh	9.1 abc	11.7 ef
Coker 310	1.14 a	.50 b	71.3 efg	8.0 abcdef	12.3 cd
Lockett 4789A	1.08 bc	.50 b	72.1 cdefg	8.0 abcdef	11.8 ef
Paymaster 18 .....	.97 e	.45 e	71.7 cdefgh	8.2 ab	10.0 j
Lockett BXL	1.08 bc	.50 bc	71.8 cdefgh	7.8 defg	11.8 ef
Acala 1517-70	1.13 a	.52 a	71.8 cdefgh	8.0 abcde	14.4 a
Stripper-Cala-S ...	1.00 de	.47 d	71.4 defgh	8.1 abcd	11.5 fg
Lankart LX 571	1.06 c	.48 cd	71.8 cdefgh	8.1 abcd	10.8 hi
Gregg 35 W	1.06 c	.50 bc	70.9 h	7.9 cdefg	13.8 b

Table 26.--Plains test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Halfway, Tex.	497 a	5.17 d	38.2 a	---	3.99 c
Lubbock (irr.), Tex.	398 b	5.24 d	37.8 a	11.4 c	3.81 d
Chillicothe (irr.), Tex.	388 b	6.23 a	33.1 d	12.1 b	4.04 c
Lamesa, Tex.	385 b	5.58 bc	36.6 b	11.0 d	3.93 d
Chillicothe (dry), Tex.	347 c	6.42 a	34.5 c	11.8 b	4.23 b
Lubbock (dry), Tex.	298 d	4.79 e	38.1 a	10.2 e	3.62 e
Altus, Okla.	288 d	5.89 b	35.1 c	11.9 b	4.61 a
Mangum, Okla.	134 e	5.51 c	33.3 d	14.5 a	4.07 b

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Halfway, Tex.	1.01 c	0.46 d	71.4 c	8.3 b	10.9 e
Lubbock (irr.), Tex.	1.02 c	.47 d	75.8 a	8.3 b	11.7 d
Chillicothe (irr.), Tex.	1.08 a	.50 a	69.5 d	7.3 e	12.3 a
Lamesa, Tex.	1.08 a	.49 c	70.0 d	8.0 c	11.8 cd
Chillicothe (dry), Tex.	1.05 b	.48 c	69.5 d	7.4 e	12.1 abc
Lubbock (dry), Tex.	1.08 a	.50 ab	74.0 b	7.8 d	11.8 cd
Altus, Okla.	1.07 ab	.50 ab	71.7 c	7.7 d	12.2 ab
Mangum, Okla.	1.07 ab	.50 ab	74.4 b	8.7 a	11.9 bcd

Table 27.--Plains test: Combined yield, boll, and spinning data for Altus and Mangum, Okla., and Chillicothe, Tex. (irrigated and dryland), by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	361 a	5.68	35.1	11.9	3.82
Westburn 70	355 a	5.49	33.5	11.4	3.80
Lankart 611	316 ab	6.51	35.2	13.6	4.15
Lockett BXL	314 abc	5.70	34.0	12.3	4.11
Coker 5110	308 abc	5.52	33.5	11.4	4.30
Paymaster 111A	308 abc	6.53	34.8	12.5	4.20
Lankart LX 571	307 abc	6.71	34.7	13.9	4.56
Deltapine 16	303 abc	5.09	36.5	11.0	4.58
Coker 310	297 abc	5.31	36.9	11.5	4.41
Paymaster 202	286 abc	5.98	35.1	12.3	4.32
Paymaster 909	282 abc	5.95	37.2	12.2	4.38
Paymaster 18	282 abc	5.25	33.7	11.2	5.22
Lockett 4789A	276 abcd	5.72	33.2	12.0	4.32
Tamcot 788	269 abcd	5.77	35.1	11.7	3.95
Stripper-Cala-S ...	252 bcd	5.99	30.5	12.0	3.95
Acala 1517-70	219 cd	5.01	36.9	12.5	4.05
Gregg 35 W	180 d	5.52	33.7	12.5	3.92

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot Sp 21	1.10	0.50	73.0	7.4	12.2
Westburn 70	1.06	.48	72.2	7.8	11.0
Lankart 611	1.01	.47	71.7	8.0	10.8
Lockett BXL	1.09	.51	71.4	7.6	12.2
Coker 5110	1.17	.54	70.6	7.5	12.6
Paymaster 111A	1.06	.50	71.4	7.6	12.4
Lankart LX 571	1.07	.49	71.4	7.9	11.2
Deltapine 16	1.11	.51	72.4	7.4	11.7
Coker 310	1.16	.52	71.6	7.8	12.9
Paymaster 202 .....	.98	.47	71.8	7.8	11.8
Paymaster 909 .....	.98	.48	70.1	8.1	11.7
Paymaster 18 .....	.93	.45	70.5	7.8	9.9
Lockett 4789A	1.08	.51	71.3	7.9	12.2
Tamcot 788	1.09	.50	71.8	7.7	12.9
Stripper-Cala-S ...	1.05	.48	70.2	8.0	12.0
Acala 1517-70	1.12	.52	70.8	7.9	14.7
Gregg 35 W	1.07	.50	69.4	7.9	13.7

Table 28.--Plains test: Combined yield, boll, and spinning data for Lubbock (irrigated and dryland), Lamesa, and Halfway, Tex., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	555 a	5.11	38.0	10.9	3.42
Tamcot Sp 21	449 b	5.47	38.6	11.3	3.66
Deltapine 16	427 bc	4.78	38.3	10.5	3.73
Acala 1517-70	426 bc	5.60	37.5	12.8	4.06
Paymaster 202	424 bc	5.49	38.4	12.0	3.98
Coker 5110	402 bcd	5.28	39.4	10.2	3.75
Lockett 4789A	394 bcd	4.90	37.0	10.6	3.71
Paymaster 909	393 bcd	6.14	39.3	11.9	4.15
Westburn 70	393 bcd	4.88	37.0	10.8	3.71
Paymaster 111A	388 bcd	6.29	36.3	12.2	4.65
Lankart 611	380 bcd	5.73	38.5	11.6	3.87
Paymaster 18	377 bcd	4.85	36.9	10.9	3.45
Coker 310	373 bcd	4.75	35.0	9.8	3.88
Stripper-Cala-S ...	368 cd	5.02	36.8	10.7	3.97
Lockett BXL	339 d	5.34	38.1	11.3	3.78
Gregg 35 W	337 d	5.59	36.6	11.7	3.65
Lankart LX 571	252 e	5.53	35.9	11.8	3.85
Span length (inches)		Colorimeter			
2.5%		50%		R_d	Hunter's <i>b</i> value
.....		
Tamcot 788	1.03	0.46	73.2	8.3	10.8
Tamcot Sp 21	1.07	.49	74.5	7.9	12.8
Deltapine 16	1.09	.49	73.3	8.3	11.5
Acala 1517-70	1.13	.53	72.8	8.1	14.2
Paymaster 202	1.05	.49	73.5	8.2	11.7
Coker 5110	1.12	.51	71.7	8.1	11.7
Lockett 4789A	1.07	.49	72.9	8.1	11.4
Paymaster 909 .....	.97	.47	71.8	8.2	11.6
Westburn 70	1.07	.49	74.8	7.6	11.6
Paymaster 111A .....	.93	.45	72.9	7.9	9.8
Lankart 611	1.03	.47	72.9	8.3	10.3
Paymaster 18	1.02	.46	72.9	8.5	10.1
Coker 310	1.13	.49	71.0	8.2	11.8
Stripper-Cala-S ...	.95	.46	72.7	8.2	11.0
Lockett BXL	1.06	.49	72.2	8.0	11.4
Gregg 35 W	1.06	.49	72.3	7.8	13.9
Lankart LX 571	1.05	.47	72.2	8.3	10.4

Table 29.--Plains test: Yield, boll, and spinning data for Altus, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	430 a	5.90	36.4	12.5	4.45
Westburn 70	367 ab	5.56	33.3	12.0	4.25
Lankart LX 571	351 ab	6.58	36.4	13.5	4.80
Coker 5110	331 ab	5.46	36.4	12.5	4.40
Coker 310	307 bc	5.16	36.4	12.0	4.60
Tamcot 788	298 bc	5.82	35.0	13.0	4.45
Paymaster 111A	286 bcd	6.72	36.4	12.5	4.60
Lockett BXL	285 bcd	5.98	33.3	12.0	4.35
Acala 1517-70	281 bcd	5.46	44.4	11.0	4.55
Stripper-Cala-S ...	279 bcd	5.78	30.0	12.5	4.45
Deltapine 16	279 bcd	5.18	38.9	11.0	4.85
Paymaster 202	274 bcd	5.86	36.4	12.0	4.90
Paymaster 909	270 bcd	6.20	37.5	11.0	5.00
Lankart 611	267 bcd	6.72	33.3	14.0	4.55
Paymaster 18	242 bcd	4.94	33.3	9.5	5.50
Lockett 4789A	183 cd	5.58	30.0	11.0	4.40
Gregg 35 W	165 d	5.66	30.0	11.5	4.35

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot Sp 21	1.14	0.51	71.0	7.4	12.2
Westburn 70	1.08	.49	72.1	7.7	11.0
Lankart LX 571	1.07	.50	71.5	7.8	11.5
Coker 5110	1.15	.53	71.2	7.2	12.1
Coker 310	1.13	.50	73.0	7.9	12.6
Tamcot 788	1.08	.51	72.1	7.8	12.2
Paymaster 111A	1.08	.52	71.8	7.7	12.7
Lockett BXL	1.12	.52	71.0	7.5	12.2
Acala 1517-70	1.15	.55	73.0	8.1	15.3
Stripper-Cala-S ...	1.02	.47	70.2	8.0	11.7
Deltapine 16	1.11	.51	72.1	7.5	11.8
Paymaster 202 .....	.98	.48	71.8	7.8	11.4
Paymaster 909 .....	.99	.49	72.0	7.6	12.1
Lankart 611	1.03	.48	72.3	8.0	11.4
Paymaster 18 .....	.92	.45	71.4	7.8	10.2
Lockett 4789A	1.07	.51	71.3	8.0	12.7
Gregg 35 W	1.05	.51	71.4	7.4	14.2

Table 30.--Plains test: Yield, boll, and spinning data for Mangum, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lankart LX 571	194 a	6.64	32.4	16.2	4.40
Lankart 611	187 ab	6.04	35.4	15.7	4.05
Westburn 70	182 ab	4.42	32.3	13.0	4.55
Paymaster 202	165 abc	5.08	33.9	14.7	4.10
Tamcot Sp 21	161 abc	5.10	32.9	13.5	3.25
Lockett BXL	158 abc	5.78	33.8	15.5	4.10
Paymaster 111A	154 abc	6.14	33.3	14.7	3.80
Lockett 4789A	151 abc	5.88	32.7	15.2	4.40
Paymaster 18	149 abc	5.10	32.5	14.0	5.20
Coker 310	144 abc	5.30	37.3	13.7	4.50
Paymaster 909	143 abc	5.84	36.9	15.5	4.10
Deltapine 16	125 abcd	4.96	34.1	13.0	4.55
Coker 5110	107 bcde	5.84	32.8	14.7	4.45
Tamcot 788	94 cde	5.64	32.2	13.0	3.85
Stripper-Cala-S ...	62 de	6.26	27.4	13.5	3.80
Acala 1517-70	58 de	4.62	34.4	15.5	3.70
Gregg 35 W	36 e	5.08	33.0	15.5	3.45

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Lankart LX 571	1.08	0.49	74.6	8.5	11.1
Lankart 611	1.03	.47	75.0	8.6	10.6
Westburn 70	1.06	.48	76.2	8.3	11.3
Paymaster 202 ....	.97	.47	75.6	8.5	11.0
Tamcot Sp 21	1.06	.49	77.8	8.6	11.4
Lockett BXL	1.10	.52	76.6	8.4	12.4
Paymaster 111A	1.08	.54	74.7	8.8	12.3
Lockett 4789A	1.07	.52	75.3	8.8	12.1
Paymaster 18 ....	.93	.45	72.4	8.3	9.5
Coker 310	1.18	.54	74.2	8.9	13.2
Paymaster 909 ....	.98	.48	72.2	9.0	10.8
Deltapine 16	1.09	.50	77.1	8.6	11.4
Coker 5110	1.19	.55	72.6	8.9	12.7
Tamcot 788	1.09	.51	76.6	8.3	13.3
Stripper-Cala-S ...	1.06	.49	72.5	9.1	12.2
Acala 1517-70	1.08	.47	74.0	8.9	14.4
Gregg 35 W	1.09	.48	67.8	9.3	13.0

Table 31.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex.
(irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn 70	462 a	6.56	31.3	11.7	3.65
Lankart 611	461 a	7.07	35.1	12.9	3.90
Deltapine 16	436 ab	5.70	34.9	11.7	4.40
Lockett BXL	432 abc	5.92	32.4	11.8	3.85
Tamcot Sp 21	427 abc	6.12	32.5	11.9	3.70
Paymaster 111A	426 abc	7.04	33.4	12.2	4.25
Paymaster 909	415 abc	6.23	35.9	12.0	4.15
Lockett 4789A	410 abc	6.30	32.1	12.3	4.20
Coker 5110	407 abc	5.75	33.8	11.4	4.00
Coker 310	380 bc	5.55	34.2	11.5	4.15
Paymaster 18	374 bc	5.80	32.1	11.7	4.90
Paymaster 202	373 bc	6.57	33.1	12.2	4.00
Stripper-Cala-S ...	372 bc	6.69	29.0	12.5	3.65
Lankart LX 571	356 c	7.55	33.0	14.3	4.45
Tamcot 788	356 c	6.24	33.3	12.1	3.65
Acala 1517-70	254 d	5.05	33.8	12.2	3.90
Gregg 35 W	244 d	5.86	33.3	12.4	3.90

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Westburn 70	1.05	0.48	70.8	7.4	11.0
Lankart 611	1.00	.47	70.2	7.8	10.6
Deltapine 16	1.14	.53	70.4	7.0	11.8
Lockett BXL	1.07	.49	68.4	7.7	12.2
Tamcot Sp 21	1.12	.52	72.4	6.5	12.8
Paymaster 111A	1.05	.49	69.5	7.2	12.1
Paymaster 909 .....	.99	.47	68.0	7.9	12.2
Lockett 4789A	1.10	.51	68.5	7.3	12.0
Coker 5110	1.21	.56	69.0	7.1	12.9
Coker 310	1.20	.54	69.9	7.0	13.1
Paymaster 18 .....	.93	.46	69.4	7.5	10.2
Paymaster 202	1.01	.49	69.8	7.6	12.7
Stripper-Cala-S ...	1.08	.50	68.8	7.4	11.9
Lankart LX 571	1.09	.51	69.6	7.5	11.5
Tamcot 788	1.12	.52	70.0	7.2	13.2
Acala 1517-70	1.15	.53	67.6	7.5	14.4
Gregg 35 W	1.09	.52	68.8	7.1	14.2

Table 32.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	427 a	6.41	34.7	11.5	3.90
Westburn 70	410 ab	6.54	33.5	11.3	3.75
Coker 5110	388 ab	6.39	36.1	11.1	4.35
Lockett BXL	380 abc	6.36	33.0	11.9	4.15
Deltapine 16	371 abcd	5.80	36.0	10.9	4.55
Paymaster 111A	365 abcd	7.21	34.0	13.1	4.15
Paymaster 18	363 abcd	6.10	32.8	11.6	5.30
Lockett 4789A	359 abcde	6.36	34.1	11.6	4.30
Coker 310	357 abcde	6.25	36.5	11.2	4.40
Lankart 611	349 abcdef	7.21	34.1	12.9	4.10
Paymaster 202	332 bcdef	7.20	33.7	12.3	4.30
Tamcot 788	329 bcdef	6.17	37.1	10.8	3.85
Lankart LX 571	327 bcdef	7.29	34.0	13.9	4.60
Paymaster 909	299 cdef	6.16	36.6	11.5	4.30
Stripper-Cala-S ...	293 def	6.74	30.9	11.8	3.90
Acala 1517-70	281 ef	5.11	34.8	12.3	4.05
Gregg 35 W	273 f	5.81	35.5	11.6	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot Sp 21	1.08	0.49	70.8	7.0	12.7
Westburn 70	1.06	.47	69.8	7.7	10.9
Coker 5110	1.15	.53	69.6	6.9	12.7
Lockett BXL	1.07	.50	69.8	7.1	12.2
Deltapine 16	1.10	.50	69.9	6.8	11.9
Paymaster 111A	1.05	.48	69.7	6.9	12.4
Paymaster 18 .....	.93	.45	68.7	7.7	9.7
Lockett 4789A	1.08	.51	70.4	7.5	11.9
Coker 310	1.13	.51	69.5	7.5	12.8
Lankart 611 .....	.97	.45	69.3	7.8	10.5
Paymaster 202 .....	.96	.45	70.1	7.4	12.2
Tamcot 788	1.07	.49	68.6	7.8	12.9
Lankart LX 571	1.03	.47	69.9	7.8	10.9
Paymaster 909 .....	.96	.47	68.3	8.1	11.9
Stripper-Cala-S ...	1.04	.48	69.3	7.5	12.0
Acala 1517-70	1.12	.53	68.6	7.3	14.6
Gregg 35 W	1.04	.49	69.9	7.8	13.5

Table 33.--Plains test: Yield, boll, and spinning data for Lamesa, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	767 a	5.82	36.0	10.7	3.60
Deltapine 16	510 b	5.20	37.5	10.3	4.10
Tamcot Sp 21	506 bc	5.31	37.4	10.7	3.70
Coker 310	458 bcd	5.54	39.6	9.9	4.20
Lockett 4789A	433 bcde	4.93	35.7	10.2	3.70
Paymaster 909	403 bcdef	6.13	38.0	11.1	3.95
Coker 5110	392 cdef	5.76	36.9	10.3	4.00
Lockett BXL	364 def	5.63	37.8	11.3	4.05
Lankart 611	361 def	6.47	36.8	12.7	4.15
Paymaster 18	336 ef	5.07	35.3	11.1	3.75
Westburn 70	336 ef	4.92	36.4	10.8	3.55
Paymaster 202	335 ef	5.41	38.2	11.2	3.80
Acala 1517-70	335 ef	6.18	36.1	12.6	4.40
Stripper-Cala-S ...	315 ef	5.31	34.9	10.6	4.00
Paymaster 111A	288 fg	6.34	35.1	11.6	4.80
Gregg 35 W	207 g	5.22	35.2	11.1	3.45
Lankart LX 571	206 g	5.73	35.8	11.4	3.75

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Tamcot 788	1.06	0.46	70.0	8.0	11.4
Deltapine 16	1.17	.53	70.5	8.5	11.2
Tamcot Sp 21	1.10	.50	72.4	7.8	12.6
Coker 310	1.17	.50	66.2	7.8	12.3
Lockett 4789A	1.11	.51	72.1	7.8	11.6
Paymaster 909	1.02	.47	70.2	7.9	12.2
Coker 5110	1.18	.52	67.3	8.4	11.9
Lockett BXL	1.10	.51	69.5	7.6	12.0
Lankart 611	1.06	.50	70.6	8.3	10.2
Paymaster 18	1.05	.45	69.3	8.3	10.2
Westburn 70	1.12	.50	72.2	7.7	12.6
Paymaster 202	1.06	.50	71.8	8.2	12.2
Acala 1517-70	1.17	.55	69.7	7.8	15.1
Stripper-Cala-S ...	.97	.47	71.5	8.5	11.1
Paymaster 111A ....	.96	.46	70.6	8.1	10.2
Gregg 35 W	1.08	.48	67.9	8.0	13.6
Lankart LX 571	1.09	.49	69.1	8.1	10.8

Table 34.--Plains test: Yield, boll, and spinning data for Lubbock, Tex. (irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	538 a	5.75	38.3	11.9	3.60
Tamcot 788	525 ab	4.22	38.0	11.2	3.35
Acala 1517-70	511 ab	5.59	37.9	12.0	3.85
Paymaster 909	477 bc	6.45	39.4	12.7	4.15
Paymaster 202	454 c	5.66	37.5	12.9	4.15
Westburn 70	431 cd	4.85	37.4	10.9	3.75
Coker 310	397 de	4.57	40.1	9.7	3.95
Coker 5110	394 de	5.15	39.8	10.1	3.70
Deltapine 16	379 def	4.60	36.8	10.7	3.50
Paymaster 111A	379 def	6.63	36.4	12.8	4.50
Paymaster 18	373 defg	4.79	38.1	10.7	3.30
Gregg 35 W	372 defg	6.00	36.5	12.5	3.70
Lockett 4789A	341 efgh	4.88	37.1	11.1	3.80
Stripper-Cala-S ...	319 fghi	4.56	37.2	10.8	3.90
Lockett BXL	317 ghi	5.21	37.8	11.2	3.70
Lankart 611	393 hi	4.83	38.9	10.5	4.00
Lankart LX 571	274 i	5.33	36.0	12.3	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot Sp 21	1.04	0.48	76.7	8.3	13.2
Tamcot 788	1.01	.46	77.1	8.5	11.3
Acala 1517-70	1.08	.50	75.5	8.4	13.8
Paymaster 909 .....	.91	.45	74.7	8.4	11.3
Paymaster 202	1.02	.49	77.1	8.5	11.9
Westburn 70	1.03	.46	78.9	8.1	11.7
Coker 310	1.09	.49	73.9	8.9	11.5
Coker 5110	1.08	.50	76.0	8.3	11.8
Deltapine 16	1.03	.46	78.1	8.3	11.8
Paymaster 111A .....	.91	.45	76.0	8.2	9.8
Paymaster 18	1.01	.46	75.9	8.6	10.3
Gregg. 35 W	1.03	.48	74.4	8.0	14.3
Lockett 4789A	1.04	.49	74.2	8.3	11.6
Stripper-Cala-S ...	.94	.46	74.5	8.1	11.1
Lockett BXL	1.05	.47	74.4	8.3	11.4
Lankart 611	1.01	.48	76.5	8.6	10.6
Lankart LX 571	1.02	.47	76.1	8.8	10.6

Table 35.--Plains test: Yield, boll, and spinning data for Lubbock, Tex. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	372 a	4.98	38.0	9.6	3.15
Tamcot Sp 21	345 ab	4.88	38.9	10.3	3.50
Paymaster 111A	335 abc	5.54	37.1	10.3	4.45
Paymaster 202	330 bcd	5.19	38.5	10.4	3.85
Acala 1517-70	316 bcde	4.84	37.4	11.6	3.85
Lockett BXL	306 bcdef	4.45	37.5	10.3	3.55
Lockett 4789A	294 cdefg	4.50	37.4	10.1	3.60
Coker 310	293 defg	4.33	40.5	9.4	3.55
Paymaster 18	290 defg	4.32	38.2	9.5	3.25
Coker 5110	289 defg	4.20	40.1	8.8	3.60
Gregg 35 W	278 efg	5.21	36.8	11.6	3.70
Lankart LX 571	276 efg	5.51	37.8	11.8	3.35
Deltapine 16	275 efg	3.81	38.6	8.5	3.40
Stripper-Cala-S ...	272 efg	4.50	35.5	9.6	3.70
Lankart 611	270 fg	5.52	38.0	12.6	3.30
Paymaster 909	270 fg	5.36	39.5	11.0	4.15
Westburn 70	254 g	4.40	37.8	9.2	3.70

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Tamcot 788	1.09	0.48	74.4	8.3	11.0
Tamcot Sp 21	1.11	.52	75.2	7.5	13.4
Paymaster 111A ....	.95	.46	73.8	7.4	10.0
Paymaster 202	1.08	.49	73.7	7.9	11.7
Acala 1517-70	1.19	.56	74.4	7.9	15.0
Lockett BXL	1.09	.50	74.3	7.6	11.1
Lockett 4789A	1.10	.50	74.1	7.8	11.4
Coker 310	1.17	.51	73.1	7.6	12.4
Paymaster 18	1.03	.46	75.0	8.5	10.4
Coker 5110	1.16	.52	72.9	7.7	11.7
Gregg 35 W	1.08	.54	73.7	7.4	14.6
Lankart LX 571	1.08	.48	73.0	8.1	10.7
Deltapine 16	1.12	.50	75.3	7.9	11.9
Stripper-Cala-S ...	.98	.47	72.0	7.9	11.2
Lankart 611	1.09	.49	76.1	8.3	11.1
Paymaster 909	1.00	.50	72.4	8.0	11.4
Westburn 70	1.10	.51	75.8	7.2	11.7

Table 36.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 202	576 a	5.42	39.6	---	4.15
Stripper-Cala-S ...	566 ab	5.20	38.4	---	4.30
Tamcot 788	557 ab	5.30	40.1	---	3.60
Westburn 70	552 ab	4.89	37.3	---	3.85
Paymaster 111A	548 abc	5.91	37.4	---	4.85
Deltapine 16	542 abc	4.54	40.6	---	3.95
Acala 1517-70	541 abc	5.04	38.5	---	4.15
Coker 5110	532 abc	4.92	41.7	---	3.70
Paymaster 18	508 abcd	4.69	37.4	---	3.50
Lockett 4789A	507 abcd	4.88	38.3	---	3.75
Lankart 611	495 abcd	5.90	40.0	---	4.10
Gregg 35 W	492 abcd	5.48	37.3	---	3.75
Paymaster 909	423 bcde	5.74	40.5	---	4.35
Tamcot Sp 21	407 cde	5.37	40.1	---	3.85
Lockett BXL	368 de	5.38	38.7	---	3.85
Coker 310	345 e	4.16	40.5	---	3.85
Lankart LX 571	---	---	---	---	3.85
Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)	
	2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value	
Paymaster 202	1.03	0.48	71.3	8.3	10.9
Stripper-Cala-S ...	.91	.44	72.6	8.5	10.7
Tamcot 788 .....	.95	.44	71.3	8.6	9.6
Westburn 70	1.04	.47	72.2	7.6	10.5
Paymaster 111A .....	.91	.44	71.2	8.2	9.2
Deltapine 16	1.05	.47	69.6	8.6	11.1
Acala 1517-70	1.10	.51	71.7	8.4	13.1
Coker 5110	1.08	.49	70.9	8.2	11.3
Paymaster 18	1.01	.46	71.7	8.7	9.7
Lockett 4789A	1.05	.48	71.3	8.5	11.1
Lankart 611 .....	.95	.44	70.5	8.4	9.5
Gregg 35 W	1.05	.47	73.3	8.0	13.0
Paymaster 909 .....	.95	.46	70.2	8.4	11.4
Tamcot Sp 21	1.03	.47	73.6	8.2	12.1
Lockett BXL	1.03	.48	70.7	8.6	11.1
Coker 310	1.08	.46	71.0	8.5	10.9
Lankart LX 571	1.03	.47	70.7	8.6	11.1

WESTERN REGIONAL COTTON VARIETY TEST

Table 37.--Western test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1081 a	5.28 f	34.2 c	10.5 f	4.32 b
Deltapine 66	1001 ab	4.97 g	35.3 c	8.8 g	4.03 d
Deltapine 16	998 ab	6.21 c	37.0 bc	11.6 d	4.53 bc
Deltapine 61	931 bc	5.88 e	37.7 bc	11.1 e	4.53 bc
Coker 310	925 bc	5.99 d	40.3 a	11.5 de	4.38 cd
Acala 1517-70	856 cd	6.40 b	35.6 c	13.2 b	4.25 d
Paymaster 909	820 cd	7.41 a	37.7 bc	14.2 a	4.80 a
AZ 64	782 d	6.13 c	38.7 ab	12.3 c	4.27 d

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Stoneville 213	1.08 d	0.49 d	69.7 c	7.7 c	10.7 f
Deltapine 66	1.06 e	.48 d	71.1 c	6.7 b	11.6 e
Deltapine 16	1.17 c	.53 c	77.2 a	8.1 b	11.7 de
Deltapine 61	1.18 bc	.54 bc	76.5 a	8.1 b	11.9 d
Coker 310	1.19 ab	.54 bc	74.6 b	8.2 b	12.3 c
Acala 1517-70	1.20 a	.56 a	74.1 b	8.3 b	15.0 a
Paymaster 909	1.03 f	.51 d	73.8 b	8.7 a	11.8 de
AZ 64	1.17 c	.55 b	73.9 b	8.2 b	13.0 b

Table 38.--Western test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Yuma, Ariz.	2073 a	5.60 f	36.3 b	11.9 b	5.50 a
Safford, Ariz.	919 b	6.58 b	38.0 ab	11.8 b	4.26 c
Las Cruces, N. Mex.	882 bc	6.19 d	36.4 b	11.0 d	4.23 c
Marana, Ariz.	878 c	5.97 e	37.5 ab	11.5 c	4.69 b
Phoenix, Ariz.	783 d	6.14 d	36.5 b	11.8 b	4.55 b
Artesia, N. Mex. ...	710 e	6.30 c	33.4 c	11.6 c	3.87 d
Brawley, Calif.	693 e	4.72 g	38.9 a	10.8 b	5.01 a
El Paso, Tex.	444 f	6.76 a	39.5 a	12.7 a	3.60 d
Pecos, Tex.	---	---	---	---	---

Span length (inches)	Colorimeter		Yarn tenacity (cN/tex)		
	2.5%	50%	R_d	Hunter's b value	
Yuma, Ariz.	1.14 d	0.54 c	75.3 bc	9.0 b	13.0 a
Safford, Ariz.	1.16 bc	.53 d	77.0 a	8.7 c	11.8 d
Las Cruces, N. Mex.	1.11 c	.53 d	71.6 e	7.9 e	11.7 d
Marana, Ariz.	1.18 a	.56 a	76.2 ab	9.6 a	13.0 a
Phoenix, Ariz.	1.17 b	.54 c	73.4 d	8.1 d	12.5 bc
Artesia, N. Mex. ...	1.10 e	.45 f	71.6 e	7.9 e	11.3 e
Brawley, Calif.	1.10 e	.52 e	71.6 e	6.8 g	12.4 bc
El Paso, Tex.	1.15 cd	.51 e	75.2 c	7.2 f	12.4 bc
Pecos, Tex.	1.11 e	.51 e	73.0 d	7.9 e	12.2 c

Table 39.--Western test: Combined yield, boll, and spinning data for Safford, Ariz.; Las Cruces and Artesia, N. Mex.; and El Paso and Pecos, Tex., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	793 a	7.17	36.9	13.3	4.11
Deltapine 16	784 ab	6.74	36.8	12.2	4.22
Paymaster 909	779 ab	8.05	38.8	14.2	4.53
Coker 310	769 ab	6.50	43.8	11.6	4.12
AZ 64	727 bc	6.59	38.9	12.7	4.05
Stoneville 213	687 cd	6.08	36.5	11.9	3.91
Deltapine 61	629 d	6.29	37.2	11.8	4.13
Deltapine 66	548 e	5.72	37.2	10.4	3.70
Span length (inches)		Colorimeter			
2.5%		R_d		Hunter's <i>b</i> value	Yarn tenacity (cN/tex)
Acala 1517-70	1.20	0.56	74.7	8.2	14.6
Deltapine 16	1.18	.53	77.9	8.1	11.6
Paymaster 909	1.03	.50	74.5	8.7	11.3
Coker 310	1.19	.53	75.4	8.1	12.1
AZ 64	1.17	.54	74.6	7.9	12.6
Stoneville 213	1.14	.51	74.1	7.6	11.4
Deltapine 61	1.19	.54	77.4	8.1	11.9
Deltapine 66	1.12	.50	76.1	8.1	12.1

Table 40.--Western test: Combined yield, boll, and spinning data for Brawley, Calif., and Yuma, Phoenix, and Marana, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1278 a	5.32	37.3	10.9	5.10
Deltapine 61	1233 ab	5.47	38.3	10.3	5.05
Deltapine 66	1228 abc	4.84	38.6	9.1	4.72
Deltapine 16	1213 abc	5.69	37.1	11.1	4.91
Coker 310	1081 bcd	5.48	37.8	11.3	4.72
AZ 64	1044 cde	5.67	38.5	12.0	4.55
Acala 1517-70	919 de	5.62	34.4	13.1	4.43
Paymaster 909	860 e	6.76	36.5	14.2	5.15
Span length (inches)		Colorimeter			Yarn
2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value		tenacity (cN/tex)
Stoneville 213	1.14	0.52	73.8	8.6	11.6
Deltapine 61	1.16	.55	75.5	8.1	12.0
Deltapine 66	1.12	.52	74.3	8.3	12.5
Deltapine 16	1.16	.53	76.4	8.1	11.8
Coker 310	1.19	.55	73.7	8.4	12.7
AZ 64	1.17	.55	73.0	8.5	13.5
Acala 1517-70	1.20	.56	73.4	8.4	15.5
Paymaster 909	1.04	.53	72.9	8.8	12.3

Table 41.--Western test: Spinning data for Pecos, Tex.*

Variety	Micro- naire reading	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
		2.5%	50%	\overline{R}_d	Hunter's <i>b</i> value	
Acala 1517-70	4.15	1.15	0.55	71.8	7.6	14.6
AZ 64	4.25	1.15	.53	71.5	7.6	12.6
Stoneville 213	4.20	1.13	.51	70.8	7.3	11.8
Deltapine 16	4.40	1.13	.51	75.9	8.1	11.9
Deltapine 61	4.30	1.13	.51	75.0	8.1	11.7
Coker 310	4.25	1.15	.50	72.6	7.7	11.9
Deltapine 66	3.80	1.07	.48	73.7	8.0	11.9
Paymaster 909	4.10	.99	.57	73.6	8.8	11.6

*No yield or boll data available.

Table 42.--Western test: Yield, boll, and spinning data for Artesia, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 909	902 a	7.80	37.5	13.7	4.45
AZ 64	784 b	6.80	38.2	12.7	4.00
Deltapine 16	769 b	6.72	34.6	12.3	4.10
Coker 310	722 bc	6.45	37.2	12.0	4.15
Deltapine 61	635 c	6.65	35.7	13.3	4.30
Acala 1517-70	449 d	7.55	34.8	13.6	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value	
Paymaster 909	1.02	0.49	76.0	8.9	11.1
AZ 64	1.20	.55	76.4	8.4	12.6
Deltapine 16	1.22	.55	77.6	8.3	11.3
Coker 310	1.24	.57	77.3	8.6	11.8
Deltapine 61	1.23	.55	78.4	8.4	11.6
Acala 1517-70	1.22	.55	75.4	8.6	15.0

Table 43.--Western test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	638 a	6.85	37.2	13.3	3.75
Coker 310	518 b	6.60	39.1	12.1	3.50
Paymaster 909	503 b	8.41	38.3	14.7	3.95
Deltapine 16	482 bc	6.93	37.4	13.0	3.80
AZ 64	429 c	6.60	38.7	13.1	3.45
Stoneville 213	411 c	6.26	36.8	12.6	3.45
Deltapine 66	261 d	5.90	36.8	11.1	3.40
Deltapine 61	242 d	6.49	36.8	12.4	3.50

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value	
Acala 1517-70	1.19	0.54	73.3	7.0	14.5
Coker 310	1.19	.51	75.1	7.0	12.2
Paymaster 909	1.03	.50	74.0	7.9	11.4
Deltapine 16	1.17	.51	78.0	7.3	11.7
AZ 64	1.15	.52	72.5	6.8	12.6
Stoneville 213	1.13	.50	74.3	7.2	11.8
Deltapine 66	1.15	.50	77.4	7.8	12.6
Deltapine 61	1.18	.52	77.4	7.1	12.5

Table 44.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	1019 a	6.95	37.7	13.2	4.25
Deltapine 16	937 ab	6.78	38.6	11.9	4.65
Paymaster 909	887 b	7.57	40.1	14.1	5.15
Coker 310	865 bc	6.47	40.6	11.2	4.40
AZ 64	827 bc	6.41	39.6	12.3	4.20
Deltapine 61	754 c	6.20	38.9	11.1	4.55

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Acala 1517-70	1.24	0.60	76.9	8.8	15.0
Deltapine 16	1.22	.56	79.0	8.6	11.5
Paymaster 909	1.09	.55	75.5	8.6	11.5
Coker 310	1.19	.56	75.9	8.4	12.7
AZ 64	1.21	.58	75.6	8.3	13.3
Deltapine 61	1.22	.58	78.1	8.5	12.4

Table 45.--Western test: Yield, boll, and spinning data for Safford, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	1065 a	7.35	37.9	13.3	4.40
Coker 310	971 ab	6.50	39.5	11.3	4.30
Stoneville 213	962 b	5.90	36.2	11.2	4.10
Deltapine 16	946 b	6.55	36.9	11.6	4.10
Deltapine 61	883 bc	5.85	37.4	10.5	4.00
AZ 64	869 bc	6.55	39.0	12.7	4.35
Deltapine 66	835 c	5.55	37.6	9.8	3.90
Paymaster 909	825 c	8.45	39.4	14.2	5.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	\bar{R}_d	Hunter's <i>b</i> value	
Acala 1517-70	1.21	0.56	76.1	8.9	13.8
Coker 310	1.18	.52	76.2	9.0	11.6
Stoneville 213	1.17	.54	77.3	8.4	10.7
Deltapine 16	1.18	.52	79.2	8.5	11.5
Deltapine 61	1.20	.54	78.1	8.4	11.8
AZ 64	1.17	.54	77.0	8.6	12.2
Deltapine 66	1.16	.51	78.4	8.6	12.0
Paymaster 909	1.02	.50	73.8	9.2	10.9

Table 46.--Western test: Yield, boll, and spinning data for Marana, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	1021 a	6.05	37.6	11.0	4.60
Deltapine 66	1019 a	5.35	38.5	9.1	4.45
Deltapine 61	964 a	5.85	39.1	10.6	4.90
Acala 1517-70	940 a	6.25	35.2	13.0	4.55
Stoneville 213	914 ab	5.50	37.3	11.0	4.90
Paymaster 909	775 b	7.45	37.0	13.9	5.20
Coker 310	770 b	5.70	37.8	11.4	4.70
AZ 64	623 c	5.65	37.8	12.0	4.25

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 16	1.23	0.55	77.7	9.4	12.1
Deltapine 66	1.17	.55	77.2	9.5	13.6
Deltapine 61	1.21	.58	77.2	9.3	12.6
Acala 1517-70	1.23	.58	75.6	9.5	15.6
Stoneville 213	1.16	.54	75.5	10.0	12.0
Paymaster 909	1.06	.54	74.3	9.9	12.1
Coker 310	1.23	.57	76.6	9.5	12.9
AZ 64	1.21	.56	75.3	9.9	13.7

Table 47.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1085 a	5.80	36.4	11.2	4.75
Deltapine 16	920 b	6.30	36.1	11.7	4.75
Deltapine 61	877 b	6.05	37.2	10.9	4.70
Deltapine 66	833 b	5.25	37.7	9.7	4.45
AZ 64	688 c	6.35	37.3	12.0	4.20
Coker 310	682 c	6.00	36.8	11.8	4.50
Acala 1517-70	653 c	5.90	34.6	12.8	4.40
Paymaster 909	530 d	7.50	35.8	14.7	4.70

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Stoneville 213	1.16	0.52	72.3	8.0	11.4
Deltapine 16	1.18	.55	75.5	8.0	11.5
Deltapine 61	1.19	.55	74.7	8.1	12.2
Deltapine 66	1.16	.53	74.0	8.2	12.4
AZ 64	1.18	.56	73.8	8.2	13.0
Coker 310	1.23	.55	72.3	8.1	12.7
Acala 1517-70	1.19	.54	71.3	8.1	14.8
Paymaster 909	1.06	.54	73.2	8.6	12.3

Table 48.--Western test: Yield, boll, and spinning data for Yuma, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	2323 a	5.45	36.2	11.2	5.30
Deltapine 61	2297 a	5.40	37.5	10.2	5.00
Deltapine 66	2267 a	4.80	37.9	9.3	5.00
Deltapine 16	2258 a	5.55	36.7	11.2	5.15
Coker 310	2147 a	5.65	36.7	11.6	5.00
AZ 64	2098 a	5.85	37.9	12.7	5.00
Paymaster 909	1599 b	6.55	35.1	15.1	5.50
Acala 1517-70	1594 b	5.60	32.6	14.3	4.50

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Stoneville 213	1.13	0.52	75.9	9.2	11.7
Deltapine 61	1.17	.55	76.2	8.9	12.2
Deltapine 66	1.09	.51	76.4	9.1	12.6
Deltapine 16	1.14	.55	77.6	8.7	12.0
Coker 310	1.17	.55	73.4	9.2	13.0
AZ 64	1.16	.56	74.3	9.0	13.6
Paymaster 909	1.02	.52	73.5	9.2	12.5
Acala 1517-70	1.22	.59	75.3	9.1	16.2

Table 49.--Western test: Yield, boll, and spinning data for Brawley, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	794 a	4.61	39.5	9.8	5.60
Deltapine 66	791 a	3.99	40.4	8.2	5.00
Stoneville 213	788 a	4.54	39.3	10.2	5.45
AZ 64	768 a	4.85	40.9	11.4	4.75
Coker 310	723 ab	4.60	39.7	10.4	4.70
Deltapine 16	654 b	4.86	38.0	10.6	5.15
Paymaster 909	535 c	5.56	38.3	13.3	5.20
Acala 1517-70	489 c	4.74	35.4	12.4	4.30

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Deltapine 61	1.10	0.50	73.8	6.2	11.0
Deltapine 66	1.07	.50	69.7	6.5	11.5
Stoneville 213	1.12	.52	71.4	7.1	11.3
AZ 64	1.12	.54	68.5	7.1	13.8
Coker 310	1.16	.54	72.7	6.9	12.3
Deltapine 16	1.11	.50	74.9	6.5	11.6
Paymaster 909	1.02	.52	70.8	7.6	12.5
Acala 1517-70	1.16	.53	71.6	6.9	15.6

SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 50.--San Joaquin test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	1561 a	7.48 a	39.0 ab	12.1 b	4.28 b
Coker 310	1483 a	6.01 c	39.5 a	10.3 c	3.98 c
Acala SJ-2	1473 a	7.65 a	37.5 cd	13.2 a	4.11 bc
Acala 1517-70	1352 b	6.71 bc	36.2 d	12.3 ab	4.00 bc
Deltapine 16	1297 b	6.04 c	37.9 bc	10.2 c	4.08 bc
Paymaster 909	1145 c	6.97 ab	38.1 bc	13.2 a	4.63 a

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Acala SJ-4	1.14 c	0.53 a	75.5 ab	8.4 b	14.1 b
Coker 310	1.17 ab	.49 b	74.9 b	8.5 ab	12.0 d
Acala SJ-2	1.16 abc	.53 a	73.8 c	8.4 b	13.0 c
Acala 1517-70	1.18 a	.52 a	74.5 bc	8.5 ab	14.8 a
Deltapine 16	1.15 bc	.49 b	76.0 a	8.4 b	11.3 e
Paymaster 909	1.03 d	.49 b	72.8 d	8.6 a	11.3 e

Table 51.--San Joaquin test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Maricopa, Calif.	1612 a	6.61 b	38.1 a	11.7 a	4.19 ab
West Side Field					
Station, Calif.	1452 b	7.19 a	38.1 a	12.1 a	4.28 a
Madera, Calif.	1091 c	6.62 b	37.9 a	11.8 a	4.07 b

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Maricopa, Calif.	1.14 b	0.50 b	75.6 b	8.4 a	12.4 b
West Side Field					
Station, Calif.	1.15 a	.52 a	76.2 a	8.8 a	13.2 a
Madera, Calif.	1.12 c	.50 b	71.9 c	8.2 a	12.6 b

Table 52.--San Joaquin test: Yield, boll, and spinning data for Maricopa, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	1835 a	7.43	39.2	11.7	4.45
Acala SJ-2	1786 b	7.50	37.3	13.5	4.15
Coker 310	1745 c	5.37	40.0	9.5	3.70
Acala 1517-70	1526 d	6.87	35.8	12.2	4.05
Deltapine 16	1476 e	5.84	37.6	10.1	4.05
Paymaster 909	1301 f	6.69	38.7	13.4	4.75

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Acala SJ-4	1.16	0.53	76.9	8.3	13.9
Acala SJ-2	1.17	.54	75.1	8.4	12.7
Coker 310	1.16	.47	75.3	8.4	11.4
Acala 1517-70	1.18	.52	75.4	8.5	14.5
Deltapine 16	1.16	.49	77.2	8.3	11.0
Paymaster 909	1.04	.49	73.8	8.6	11.2

Table 53.--San Joaquin test: Yield, boll and spinning data for West Side Field Station, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	1640 a	6.47	39.1	11.1	4.20
Acala SJ-4	1582 b	7.68	38.9	12.2	4.35
Acala SJ-2	1476 c	8.32	38.1	13.7	4.35
Acala 1517-70	1444 d	7.13	37.1	12.7	4.05
Deltapine 16	1377 e	5.91	37.6	9.9	4.20
Paymaster 909	1196 f	7.67	37.8	13.4	4.55

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Coker 310	1.20	0.52	76.7	8.9	12.4
Acala SJ-4	1.15	.54	76.3	8.9	14.4
Acala SJ-2	1.17	.54	75.3	8.9	13.7
Acala 1517-70	1.19	.54	76.0	8.9	15.3
Deltapine 16	1.18	.51	77.8	8.6	11.8
Paymaster 909	1.04	.50	75.3	9.0	11.6

Table 54.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	1265 a	7.34	38.9	12.5	4.05
Acala SJ-2	1156 b	7.12	37.1	12.6	3.85
Acala 1517-70	1087 c	6.15	35.7	12.1	3.90
Coker 310	1062 d	6.19	39.4	10.3	4.05
Deltapine 16	1038 e	6.36	38.7	10.8	4.00
Paymaster 909	938 f	6.55	37.8	12.8	4.60

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Acala SJ-4	1.12	0.51	73.2	8.1	13.9
Acala SJ-2	1.15	.52	71.1	7.9	12.6
Acala 1517-70	1.17	.52	72.1	8.2	14.6
Coker 310	1.16	.49	72.8	8.2	12.3
Deltapine 16	1.13	.47	73.2	8.2	11.3
Paymaster 909	1.01	.47	69.2	8.4	11.2

NARROW-ROW REGIONAL COTTON VARIETY TEST

Table 55.--Narrow-row test: Yield, boll, and spinning data, double- and single-drill, by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Double drill					
Stoneville 213	821 a	5.24 b	40.6 ab	10.7 b	5.06 a
Stoneville 603	790 a	5.40 b	38.5 c	11.0 b	4.66 bc
Auburn M	766 a	6.34 a	38.2 c	12.6 a	4.61 c
Deltapine 16	688 ab	5.46 b	40.1 b	10.8 b	4.98 ab
Coker 310	654 ab	5.51 b	41.3 a	10.7 b	4.93 ab
Paymaster 909	555 b	6.58 a	38.3 c	12.8 a	4.96 ab
Single drill					
Stoneville 213	939 a	5.66 c	40.0 a	10.8 d	5.03 a
Stoneville 603	935 a	5.82 bc	37.8 c	11.7 c	4.60 cd
Auburn M	812 ab	6.64 a	37.5 c	13.0 b	4.50 d
Deltapine 16	784 ab	6.09 b	39.8 ab	11.3 cd	4.91 ab
Coker 310	865 a	5.84 bc	41.0 a	11.1 cd	4.75 bc
Paymaster 909	631 b	6.87 a	38.6 bc	13.6 a	5.03 a
Span length (inches)					
2.5%	50%		<i>R_d</i>	Colorimeter Hunter's b value	Yarn tenacity (cN/tex)
Double drill					
Stoneville 213	1.10 c	0.52 bc	68.7 d	7.8 ab	11.6 b
Stoneville 603	1.15 ab	.55 a	71.9 ab	7.6 b	11.8 b
Auburn M	1.11 c	.52 bc	71.6 b	7.9 ab	11.7 b
Deltapine 16	1.13 bc	.53 ab	73.1 a	7.9 ab	11.8 b
Coker 310	1.18 a	.54 ab	70.0 cd	8.1 ab	12.6 a
Paymaster 909	1.01 d	.50 c	71.0 bc	8.2 a	11.5 b
Single drill					
Stoneville 213	1.12 cd	0.53 abc	71.6 b	8.2 b	11.7 b
Stoneville 603	1.14 bc	.53 bc	71.5 b	7.6 d	12.2 ab
Auburn M	1.10 d	.52 c	71.7 b	8.0 c	11.9 b
Deltapine 16	1.15 b	.54 ab	73.2 a	8.0 bc	12.1 ab
Coker 310	1.19 a	.55 a	70.9 b	7.9 c	12.6 a
Paymaster 909	1.00 e	.50 d	71.1 b	8.4 a	11.6 b

Table 56.--Narrow-row test: Yield, boll, and spinning data, double- and single-drill, by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Double drill					
College Station, Tex.	864 a	5.40 b	37.3 c	11.2 b	4.81 b
Bossier City, La. ...	806 a	5.47 b	41.3 a	11.6 a	5.19 a
Ames Plantation, Tenn.	466 b	6.39 a	39.8 b	11.6 a	4.60 c
Single drill					
College Station, Tex.	938 b	6.00 b	36.7 c	11.7 b	4.77 b
Bossier City, La. ...	1058 a	5.78 c	41.2 a	11.7 b	5.12 a
Ames Plantation, Tenn.	486 c	6.69 a	39.4 b	12.2 a	4.51 c
Span length (inches)					
2.5%	50%		<u>R_d</u>	Colorimeter Hunter's b value	Yarn tenacity (cN/tex)
Double drill					
College Station, Tex.	1.12 a	0.51 b	69.1 c	6.8 c	11.7 b
Bossier City, La. ...	1.10 a	.53 a	70.9 b	7.7 b	11.8 a
Ames Plantation, Tenn.	1.12 a	.54 a	73.3 a	9.2 a	12.0 a
Single drill					
College Station, Tex.	11.1 ab	0.51 b	69.5 c	7.0 c	11.9 a
Bossier City, La. ...	11.1 b	.54 a	72.1 b	7.8 b	12.0 a
Ames Plantation, Tenn.	11.3 a	.54 a	73.5 a	9.1 a	12.1 a

Table 57.--Narrow-row test: Yield, boll, and spinning data, double- and single-drill, for Ames Plantation, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Double drill					
Auburn M	596 a	6.97	39.1	12.9	4.55
Stoneville 213	521 a	5.87	39.7	11.2	4.75
Deltapine 16	481 a	6.16	40.6	11.0	4.55
Stoneville 603	475 a	5.99	39.2	11.2	4.60
Coker 310	452 a	6.08	41.7	10.9	4.55
Paymaster 909	273 b	7.31	38.8	12.4	4.75
Single drill					
Auburn M	560 a	7.33	38.2	13.7	4.40
Stoneville 213	472 b	6.08	39.5	11.4	4.55
Deltapine 16	484 ab	6.66	40.3	11.7	4.50
Stoneville 603	504 ab	6.25	38.8	11.7	4.55
Coker 310	575 a	6.21	41.5	11.4	4.50
Paymaster 909	321 c	7.63	38.2	13.4	4.60
Span length (inches)					
2.5%	50%		R_d	Colorimeter Hunter's b value	Yarn tenacity (cN/tex)
Double Drill					
Auburn M	1.10	0.53	74.3	9.0	11.9
Stoneville 213	1.13	.53	70.9	9.4	12.0
Deltapine 16	1.17	.58	74.4	9.3	12.2
Stoneville 603	1.15	.56	73.9	9.2	12.1
Coker 310	1.19	.56	73.0	9.6	12.8
Paymaster 909	1.00	.51	73.5	9.1	11.5
Single Drill					
Auburn M	1.13	0.54	73.4	9.0	11.9
Stoneville 213	1.14	.56	74.5	9.4	12.1
Deltapine 16	1.18	.56	74.8	9.6	12.4
Stoneville 603	1.14	.54	73.1	9.0	12.2
Coker 310	1.21	.56	71.8	9.0	12.4
Paymaster 909	1.01	.51	73.4	9.2	11.3

Table 58.--Narrow-row test: Yield, boll, and spinning data, double- and single-drill, for Bossier City, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Double drill					
Stoneville 213	952 a	5.03	42.7	10.6	5.40
Auburn M	920 a	6.00	40.2	12.5	4.75
Stoneville 603	829 ab	4.93	39.9	11.0	4.75
Deltapine 16	826 ab	5.19	42.2	10.9	5.45
Paymaster 909	688 bc	6.45	40.0	13.6	5.40
Coker 310	624 c	5.25	42.9	11.0	5.50
Single drill					
Stoneville 213	1215 a	5.41	43.1	10.7	5.55
Auburn M	1112 ab	6.07	39.4	12.3	4.60
Stoneville 603	1110 ab	5.38	40.2	11.2	4.75
Deltapine 16	1038 ab	5.75	41.4	11.2	5.30
Paymaster 909	736 b	6.64	39.9	13.9	5.55
Coker 310	1138 ab	5.45	43.5	11.3	5.05
Span length (inches)					
2.5%	50%		<i>R_d</i>	Colorimeter Hunter's <i>b</i> value	Yarn tenacity (cN/tex)
Double drill					
Stoneville 213	1.10	0.55	69.0	7.5	11.3
Auburn M	1.11	.54	70.7	7.7	11.9
Stoneville 603	1.14	.57	72.1	7.4	11.8
Deltapine 16	1.10	.52	73.7	7.8	11.5
Paymaster 909	1.02	.53	70.7	8.5	11.8
Coker 310	1.18	.56	68.7	7.9	13.0
Single drill					
Stoneville 213	1.12	0.54	70.5	7.8	11.1
Auburn M	1.11	.54	72.9	8.1	12.0
Stoneville 603	1.13	.54	72.8	7.3	12.4
Deltapine 16	1.13	.55	73.0	7.6	12.1
Paymaster 909	1.02	.52	72.3	8.4	12.1
Coker 310	1.18	.57	71.3	8.0	12.9

Table 59.--Narrow-row test: Yield, boll, and spinning data, double- and single-drill, for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Double drill					
Stoneville 603	1067 a	5.30	36.4	10.8	4.65
Stoneville 213	989 a	4.82	39.3	10.3	5.15
Coker 310	886 a	5.20	39.2	10.4	4.75
Auburn M	782 a	6.05	35.3	12.5	4.75
Deltapine 16	757 a	5.03	37.5	10.5	4.95
Paymaster 909	704 a	6.00	36.1	12.6	4.75
Single drill					
Stoneville 603	1190 a	5.84	34.5	12.1	4.50
Stoneville 213	1129 a	5.51	37.5	10.2	5.00
Coker 310	881 b	5.86	38.0	10.8	4.70
Auburn M	764 b	6.52	34.8	13.0	4.50
Deltapine 16	830 b	5.90	37.7	10.9	5.00
Paymaster 909	836 b	6.36	37.8	13.6	5.00
Span length (inches)					
2.5%	50%		<i>R_d</i>	Hunter's <i>b</i> value	Yarn tenacity (cN/tex)
Double drill					
Stoneville 603	1.17	0.55	70.1	6.4	11.7
Stoneville 213	1.10	.50	66.4	6.7	11.8
Coker 310	1.19	.53	68.6	6.9	12.2
Auburn M	1.12	.52	69.1	7.2	11.4
Deltapine 16	1.14	.52	71.6	6.9	11.8
Paymaster 909	1.04	.50	69.1	7.3	11.4
Single drill					
Stoneville 603	1.16	0.52	68.9	6.7	12.0
Stoneville 213	1.13	.52	70.0	7.5	12.2
Coker 310	1.19	.53	69.7	6.8	12.1
Auburn M	1.08	.49	68.9	7.0	11.9
Deltapine 16	1.16	.54	72.1	7.0	11.9
Paymaster 909	0.99	.48	68.4	7.7	11.7

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 60.--High-quality test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	899 a	5.78 cde	38.9 de	10.9 fgh	4.60 ef
DES 06-020-24	843 ab	5.90 bcd	39.5 cd	11.2 cdef	4.65 de
Deltapine 16	829 abc	5.96 abc	38.7 de	11.0 efg	4.60 ef
PD 9240	809 abc	5.21 i	39.4 cd	10.8 gh	4.43 g
Coker 310	802 abcd	5.79 cde	39.8 c	10.7 h	4.58 ef
Mo. 63-277 BR	786 abcd	6.14 a	38.3 e	11.6 ab	4.17 h
Coker 71-511	780 abcd	6.18 a	38.0 e	11.5 bc	4.60 ef
Stoneville 429	767 bcd	5.52 fgh	38.9 de	11.8 a	5.20 a
PD 0113	761 bcd	5.57 efg	38.1 e	11.1 defg	4.51 efg
Brycot 350	751 bcd	5.71 def	38.2 e	11.1 defg	4.77 cd
Coker 8103	747 bcd	6.09 ab	38.5 e	10.8 defg	4.42 g
PD 0251	737 bcd	5.80 cde	41.5 a	11.3 bcde	4.85 bc
Coker 420	726 bcd	5.73 def	38.2 e	11.1 defg	4.49 fg
PD 1227	726 bcd	5.23 i	40.7 b	10.2 i	4.93 b
PD 0111	709 cd	5.42 ghi	37.0 f	11.6 ab	4.60 ef
Stoneville 1082 ...	679 d	5.31 hi	37.0 f	11.4 bcd	4.59 ef
Acala 1517-70	453 e	5.42 ghi	36.3 f	11.8 a	3.86 i

Span length (inches)	Colorimeter		Yarn tenacity (cN/tex)		
	2.5%	50%	R_d	Hunter's b value	
McNair 2-520	1.13 ef	0.54 cdefg	71.6 bc	8.0 e	12.6 fgh
DES 06-020-24	1.15 bcdef	.54 bcdef	70.3 bcd	8.5 abc	12.2 i
Deltapine 16	1.14 ef	.53 gh	73.3 a	8.3 bc	11.6 j
PD 9240	1.14 def	.55 ab	70.8 bcd	8.0 de	13.3 bcd
Coker 310	1.19 ab	.54 bcde	71.1 bc	8.3 bc	12.1 i
Mo. 63-277 BR	1.18 abcd	.55 abcd	71.5 bc	8.5 abc	13.0 de
Coker 71-511	1.18 abc	.56 a	70.7 bcd	8.5 abc	12.9 def
Stoneville 429	1.12 f	.53 fg	70.0 cd	8.4 abc	12.5 ghi
PD 0113	1.13 ef	.54 cdefg	71.6 bc	8.2 cd	13.2 bcde
Brycot 350	1.12 f	.51 h	72.1 ab	8.4 abc	11.8 j
Coker 8103	1.16 bcdef	.54 bcdef	71.2 bc	8.4 bc	13.0 cde
PD 0251	1.15 bcdef	.54 bcdef	71.1 bc	8.3 bcd	12.8 efg
Coker 420	1.21 a	.55 abcd	70.5 bcd	8.5 abc	13.0 de
PD 1227	1.12 ef	.54 bcdefg	68.9 d	8.5 abc	13.4 bc
PD 0111	1.15 cdef	.55 abc	70.7 bcd	8.7 a	13.5 b
Stoneville 1082 ...	1.16 bcde	.53 defg	70.7 bcd	8.5 ab	12.2 hi
Acala 1517-70	1.16 bcdef	.53 efg	70.3 bcd	8.3 bcd	14.0 a

Table 61.--High-quality test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Rohwer, Ark.	1579 a	4.21 g	37.4 g	12.2 b	4.13 g
Florence, S.C.	1074 b	5.58 de	40.0 c	10.0 h	5.15 b
College Station, Tex.	837 c	5.42 ef	36.2 h	11.1 e	4.54 de
St. Joseph, La. ...	812 c	5.64 d	38.8 de	11.1 e	4.75 c
Jackson, Tenn.	703 d	6.06 a	37.3 g	12.1 b	4.25 f
Tifton, Ga.	697 d	5.86 bc	38.2 ef	11.5 d	4.20 fg
Athens, Ga.	588 e	5.63 d	41.4 b	10.2 gh	4.52 e
Belle Mina, Ala. ...	461 f	6.02 ab	42.2 a	10.2 fg	4.80 c
Portageville, Mo. .	424 g	6.18 a	37.9 fg	11.8 c	4.21 fg
Rocky Mount, N.C. .	356 h	5.31 fg	39.0 d	10.4 f	5.25 a
Stoneville, Miss. .	---	5.71 cd	36.7 h	12.4 a	4.63 d

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Rohwer, Ark.	1.20 a	0.55 cd	67.9 e	6.4 g	13.5 a
Florence, S.C.	1.13 c	.54 e	73.7 a	8.9 d	12.9 c
College Station, Tex.	1.16 bc	.52 f	67.6 e	7.4 f	12.7 cd
St. Joseph, La. ...	1.18 ab	.56 b	73.4 ab	8.5 d	13.2 b
Jackson, Tenn.	1.19 a	.56 bc	72.3 bc	9.6 a	13.3 a
Tifton, Ga.	1.20 a	.57 a	73.5 ab	9.4 b	12.8 c
Athens, Ga.	1.05 e	.51 f	69.8 d	8.6 d	12.4 d
Belle Mina, Ala. ...	1.14 c	.55 cde	71.5 c	8.5 d	12.8 c
Portageville, Mo. .	1.14 c	.49 g	67.8 e	8.8 c	11.1 f
Rocky Mount, N.C. .	1.10 d	.52 f	71.4 c	7.9 e	12.3 e
Stoneville, Miss. .	1.18 ab	.55 de	71.9 c	7.9 e	13.4 ab

Table 62.--High-quality test: Combined yield, boll, and spinning data for Tifton and Athens, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	707 a	5.78	40.3	10.2	4.80
PD 9240	699 a	5.21	41.0	10.2	4.60
Coker 310	695 ab	5.82	41.6	10.1	4.80
Deltapine 16	689 ab	6.01	40.3	10.4	4.87
Brycot 350	683 ab	5.82	40.2	10.3	5.09
Coker 71-511	683 ab	6.14	40.0	10.6	4.86
DES 06-020-24	670 ab	5.94	40.7	10.6	4.89
PD 0113	644 ab	5.54	39.4	10.3	4.60
Coker 8103	643 ab	6.05	40.6	10.0	4.66
Stoneville 429	640 ab	5.47	40.3	11.1	5.34
Coker 420	633 ab	5.73	39.7	10.4	4.70
PD 1227	630 ab	5.22	42.0	9.5	5.03
PD 0111	623 ab	5.31	38.3	11.0	4.79
PD 0251	622 ab	5.89	43.4	10.5	5.00
Mo. 63-277 BR	602 ab	6.07	39.4	10.8	4.32
Stoneville 1082 ...	592 b	5.40	38.4	10.8	4.89
Acala 1517-70	371 c	5.23	37.1	10.9	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	\overline{R}_d	Hunter's <i>b</i> value	
McNair 2-520	1.11	0.54	72.6	8.2	12.4
PD 9240	1.11	.55	70.2	8.3	12.7
Coker 310	1.16	.55	72.1	8.6	12.3
Deltapine 16	1.11	.53	74.1	8.7	11.2
Brycot 350	1.11	.53	72.7	8.8	11.8
Coker 71-511	1.15	.56	72.0	8.6	12.8
DES 06-020-24	1.13	.54	71.1	8.9	12.1
PD 0113	1.10	.53	72.9	8.5	13.2
Coker 8103	1.13	.54	71.8	8.8	12.8
Stoneville 429	1.10	.53	71.1	8.7	12.3
Coker 420	1.14	.54	72.4	8.7	13.1
PD 1227	1.10	.54	71.7	9.0	13.2
PD 0111	1.12	.55	72.1	8.9	13.3
PD 0251	1.14	.55	72.3	8.7	12.8
Mo. 63-277 BR	1.16	.55	72.0	8.9	13.0
Stoneville 1082 ...	1.13	.53	70.9	8.9	12.1
Acala 1517-70	1.13	.53	71.5	8.5	14.2

Table 63.--High-quality test: Combined yield, boll, and spinning data for College Station, Tex.; St. Joseph, La.; Stoneville, Miss.;* Jackson, Tenn.; Portageville, Mo.; and Rohwer, Ark., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	1091 a	5.77	37.8	9.7	4.44
DES 06-020-24	1016 ab	5.86	38.4	10.0	4.45
Mo. 63-277 BR	971 abc	5.95	37.5	12.2	4.05
Deltapine 16	968 abc	5.95	37.3	10.4	4.39
PD 9240	948 abc	5.20	38.0	9.5	4.30
Coker 310	908 bcd	5.77	38.3	9.5	4.40
Stoneville 429	894 bcd	5.56	37.7	10.4	5.09
PD 0113	878 bcd	5.68	37.0	9.9	4.41
Coker 71-511	876 bcd	6.21	36.4	10.4	4.38
PD 0251	852 cd	5.73	40.0	10.1	4.75
Coker 8103	851 cd	6.13	36.7	9.7	4.26
PD 1227	822 cd	5.16	39.5	9.1	4.86
Coker 420	820 cd	5.73	37.0	9.9	4.30
Brycot 350	819 cd	5.61	36.5	9.7	4.51
PD 0111	795 d	5.50	35.9	10.3	4.45
Stoneville 1082 ...	765 d	5.05	38.9	11.0	4.35
Acala 1517-70	535 e	5.58	35.7	10.7	3.75

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
McNair 2-520	1.16	0.54	70.9	7.7	12.7
DES 06-020-24	1.17	.54	69.7	8.2	12.2
Mo. 63-277 BR	1.20	.54	71.1	8.1	13.0
Deltapine 16	1.16	.52	72.7	8.0	12.0
PD 9240	1.17	.56	71.3	7.8	13.9
Coker 310	1.21	.54	70.3	8.1	12.0
Stoneville 429	1.14	.52	69.1	8.2	12.6
PD 0113	1.16	.54	70.4	8.0	13.2
Coker 71-511	1.20	.55	69.6	8.4	12.9
PD 0251	1.17	.54	70.2	8.0	12.8
Coker 8103	1.16	.52	69.8	8.4	12.4
PD 1227	1.14	.54	67.0	8.2	13.5
Coker 420	1.26	.55	69.0	8.3	12.8
Brycot 350	1.13	.50	71.7	8.1	11.7
PD 0111	1.17	.55	69.6	8.5	13.7
Stoneville 1082 ...	1.19	.54	70.6	8.3	12.3
Acala 1517-70	1.18	.53	69.3	8.1	13.9

* Boll and spinning data only

Table 64.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	451 a	5.57	40.7	10.0	5.30
Coker 71-511	443 a	5.92	38.6	10.5	5.30
PD 0111	403 ab	5.15	38.3	10.8	5.45
Brycot 350	390 ab	5.34	38.6	10.0	5.40
PD 0113	384 ab	5.10	38.9	10.3	5.05
McNair 2-520	384 ab	5.36	39.9	10.2	5.30
Deltapine 16	380 abc	5.64	39.7	9.9	5.55
Coker 420	378 abc	5.47	39.6	10.3	5.15
Stoneville 1082 ...	364 bc	4.80	37.5	10.3	5.45
PD 1227	355 bcd	4.75	40.9	9.7	---
DES 06-020-24	347 bcd	5.27	39.6	10.6	5.45
PD 9240	330 bcd	4.90	39.6	10.2	5.20
PD 0251	328 bcd	5.44	40.7	10.8	---
Coker 8103	306 cde	5.43	38.4	10.0	4.95
Mo. 63-277 BR	287 de	5.55	37.7	11.2	4.70
Stoneville 429	287 de	4.93	39.7	11.0	5.85
Acala 1517-70	236 e	5.66	35.3	11.7	4.75
Span length (inches)		Colorimeter			Yarn tenacity (cN/tex)
2.5%	50%	R_d	Hunter's <i>b</i> value		
Coker 310	1.11	0.51	71.7	7.5	12.6
Coker 71-511	1.10	.53	71.0	7.7	12.4
PD 0111	1.10	.52	71.8	8.1	13.3
Brycot 350	1.07	.50	72.2	7.8	11.0
PD 0113	1.10	.53	71.5	8.1	12.1
McNair 2-520	1.08	.53	70.1	7.4	11.6
Deltapine 16	1.07	.50	72.4	7.9	10.6
Coker 420	1.11	.52	72.8	7.7	12.8
Stoneville 1082 ...	1.10	.52	71.8	8.0	12.2
PD 1227	---	---	---	---	---
DES 06-020-24	1.10	.52	69.7	8.4	11.0
PD 9240	1.08	.52	70.6	7.6	12.3
PD 0251	---	---	---	---	---
Coker 8103	1.10	.53	70.0	8.3	12.7
Mo. 63-277 BR	1.14	.55	71.3	8.2	12.6
Stoneville 429	1.09	.52	72.0	8.2	12.2
Acala 1517-70	1.13	.55	72.1	7.7	15.8

Table 65.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	1191 a	5.29	40.4	10.2	5.10
Stoneville 429	1159 ab	5.10	42.3	10.5	5.60
PD 9240	1154 ab	4.98	41.5	9.1	5.05
Coker 71-511	1135 ab	5.91	38.9	10.2	5.20
PD 1227	1134 ab	5.28	41.4	9.0	5.45
Deltapine 16	1130 abc	6.07	40.8	9.7	5.40
Coker 8103	1126 abc	5.80	40.5	9.9	5.00
PD 0113	1123 abc	5.53	39.6	9.6	5.20
Stoneville 1082 ...	1118 abc	5.27	38.1	9.9	5.25
Coker 310	1098 abc	5.51	35.6	10.8	5.30
PD 0251	1092 bc	5.93	43.2	10.1	5.50
Brycot 350	1090 bc	5.60	39.4	10.3	5.40
PD 0111	1065 bc	5.67	39.0	10.1	5.05
Coker 420	1034 cd	5.74	39.5	10.2	5.00
DES 06-020-24	978 de	5.71	39.9	10.3	5.15
Mo. 63-277 BR	914 e	6.09	38.4	10.7	4.75
Acala 1517-70	720 f	5.41	35.6	10.8	4.15

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
McNair 2-520	1.11	0.53	74.7	8.7	12.2
Stoneville 429	1.11	.51	72.0	8.9	12.3
PD 9240	1.14	.56	61.8	8.5	13.2
Coker 71-511	1.16	.56	75.2	8.9	13.6
PD 1227	1.10	.54	73.2	9.1	13.3
Deltapine 16	1.13	.55	78.0	8.9	11.1
Coker 8103	1.14	.53	73.9	9.1	12.9
PD 0113	1.13	.56	75.1	8.9	13.0
Stoneville 1082 ...	1.12	.52	73.5	9.3	12.2
Coker 310	1.19	.57	74.0	8.7	11.9
PD 0251	1.15	.55	74.8	8.8	13.2
Brycot 350	1.15	.55	76.0	9.1	11.6
PD 0111	1.13	.54	74.5	8.9	13.7
Coker 420	1.14	.53	75.1	8.9	13.7
DES 06-020-24	1.14	.53	73.1	9.1	12.7
Mo. 63-277 BR	1.17	.56	74.3	9.0	13.8
Acala 1517-70	1.12	.51	73.4	8.7	14.8

Table 66.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 06-020-24	821 a	6.02	39.5	11.4	4.50
McNair 2-520	796 ab	6.10	38.8	10.8	4.05
PD 9240	789 ab	5.57	40.6	11.1	4.10
Coker 420	749 abc	6.06	37.6	11.7	4.15
Deltapine 16	741 abc	6.31	38.0	11.4	4.25
PD 0113	737 abc	5.80	37.9	11.7	3.95
Coker 71-511	736 abc	6.23	37.7	11.7	4.25
Mo. 63-277 BR	736 abc	5.91	37.9	11.5	3.80
Coker 310	720 abc	6.37	38.8	11.6	4.10
PD 0111	702 abc	5.12	36.3	12.6	4.20
Stoneville 429	699 abc	5.59	38.4	12.4	4.80
PD 1227	690 bc	5.28	39.9	10.2	4.60
Coker 8103	675 bc	6.21	38.1	11.2	4.10
Brycot 350	655 c	5.98	38.3	10.8	4.60
PD 0251	654 c	6.02	41.9	11.6	4.55
Stoneville 1082 ...	634 c	5.72	36.3	12.1	4.10
Acala 1517-70	320 d	5.35	34.6	11.5	3.45

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
DES 02-020-24	1.19	0.58	73.4	9.4	12.3
McNair 2-520	1.18	.57	73.7	8.8	12.5
PD 9240	1.21	.61	74.6	9.2	12.9
Coker 420	1.24	.59	73.6	9.2	13.4
Deltapine 16	1.17	.55	76.0	9.1	11.6
PD 0113	1.18	.57	73.7	9.4	13.3
Coker 71-511	1.24	.62	72.9	9.2	12.9
Mo. 63-277 BR	1.25	.60	75.0	10.0	13.6
Coker 310	1.25	.58	74.0	9.5	12.8
PD 0111	1.22	.60	73.2	9.8	13.2
Stoneville 429	1.17	.57	72.6	9.5	12.8
PD 1227	1.17	.56	73.2	10.1	12.8
Coker 8103	1.18	.57	73.0	9.4	12.5
Brycot 350	1.16	.55	73.5	9.7	12.1
PD 0251	1.19	.57	73.3	9.1	13.0
Stoneville 1082 ...	1.23	.56	72.3	9.3	12.5
Acala 1517-70	1.19	.55	71.5	9.7	13.6

Table 67.--High-quality test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Brycot 350	806 a	5.82	43.6	9.9	5.00
Deltapine 16	707 ab	5.38	40.8	10.4	4.40
Coker 310	672 abc	5.62	43.1	9.5	4.50
Coker 71-511	631 bcd	6.34	42.6	10.2	4.65
Coker 8103	614 bcd	6.72	42.5	9.7	4.65
DES 06-020-24	607 bcde	5.80	41.0	10.3	4.50
McNair 2-520	605 bcde	6.22	40.5	10.1	4.70
PD 1227	597 bcde	5.40	43.7	9.4	5.00
Coker 420	564 bcde	5.58	40.5	9.7	4.35
Stoneville 429	562 bcde	5.80	40.3	11.0	4.95
PD 9240	560 bcde	5.02	39.9	10.4	4.05
Mo. 63-277 BR	548 bcde	6.12	40.4	10.9	4.10
PD 0113	535 cde	5.46	39.5	10.3	4.35
PD 0251	529 cde	5.78	46.4	9.9	4.95
PD 0111	514 cde	5.06	37.6	11.0	4.30
Stoneville 1082 ...	497 de	5.48	40.5	10.7	4.70
Acala 1517-70	440 e	4.60	40.4	9.8	3.70

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Brycot 350	1.04	0.50	69.7	8.6	12.3
Deltapine 16	1.02	.49	71.1	8.9	11.1
Coker 310	1.07	.52	69.4	9.0	12.1
Coker 71-511	1.12	.54	69.6	8.5	12.7
Coker 8103	1.08	.51	70.0	8.8	12.9
DES 06-020-24	1.09	.53	69.4	8.5	12.1
McNair 2-520	1.04	.51	72.5	8.2	12.9
PD 1227	1.01	.50	70.4	8.4	13.5
Coker 420	1.07	.52	69.5	9.3	12.7
Stoneville 429	1.03	.53	69.3	8.9	12.1
PD 9240	1.01	.53	72.8	8.4	11.8
Mo. 63-277 BR	1.07	.52	68.0	8.5	12.1
PD 0113	1.02	.50	72.4	8.0	13.8
PD 0251	1.10	.53	70.4	8.6	12.3
PD 0111	1.00	.52	68.2	9.2	12.6
Stoneville 1082 ...	1.06	.52	66.4	8.8	11.5
Acala 1517-70	1.08	.53	69.3	8.5	13.0

Table 68.--High-quality test: Yield, boll and spinning data for Belle Mina, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 06-020-24	598 a	6.92	43.5	10.4	4.85
McNair 2-520	558 ab	5.96	41.9	9.7	4.85
Coker 310	536 bc	6.03	43.6	9.8	4.80
Mo. 63-277 BR	525 bcd	6.68	42.6	10.0	4.25
PD 9240	514 bcde	5.61	43.7	10.2	4.60
PD 0251	507 bcde	6.30	44.8	10.3	5.00
Stoneville 429	495 cde	5.96	40.8	10.8	5.50
Coker 8103	494 cde	6.12	43.7	9.5	4.60
Deltapine 16	489 cdef	6.65	42.1	10.5	4.75
Brycot 350	476 defg	6.40	41.2	10.8	5.05
Coker 71-511	470 efg	6.31	42.3	10.4	4.90
Coker 420	441 fg	5.81	42.2	10.2	4.85
PD 0113	439 fg	5.81	41.3	9.7	4.65
PD 0111	433 g	5.59	40.2	10.8	4.95
PD 1227	373 h	5.39	44.3	9.2	5.10
Stoneville 1082 ...	347 h	5.75	39.8	11.3	4.95
Acala 1517-70	139 i	5.16	39.5	10.9	3.95

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
DES 06-020-24	1.14	0.55	69.9	9.0	12.6
McNair 2-520	1.13	.55	71.9	8.1	12.8
Coker 310	1.21	.56	71.7	8.5	12.3
Mo. 63-277 BR	1.16	.55	71.3	8.9	13.0
PD 9240	1.14	.55	71.4	7.7	13.3
PD 0251	1.15	.55	70.8	8.3	12.8
Stoneville 429	1.12	.54	70.8	8.3	12.3
Coker 8103	1.14	.55	72.1	8.4	13.1
Deltapine 16	1.15	.56	73.4	8.7	11.7
Brycot 350	1.13	.54	72.2	8.8	12.1
Coker 71-511	1.14	.56	71.6	8.7	12.8
Coker 420	1.15	.57	71.3	8.6	13.0
PD 0113	1.11	.52	72.7	8.4	13.7
PD 0111	1.15	.57	72.6	8.6	13.9
PD 1227	1.12	.55	70.3	8.5	13.0
Stoneville 1082 ...	1.16	.55	70.8	9.1	12.3
Acala 1517-70	1.15	.52	71.5	8.2	13.8

Table 69.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 06-020-24	947 a	6.49	39.0	12.0	4.40
McNair 2-520	941 a	6.24	37.8	11.5	4.15
Mo. 63-277 BR	842 b	6.39	37.7	12.2	3.70
Coker 310	837 b	6.00	39.1	11.3	4.35
Stoneville 429	803 bc	6.24	37.4	13.6	5.05
PD 9240	752 cd	5.86	37.5	12.6	4.15
PD 0113	737 cd	6.33	36.6	12.2	4.35
Deltapine 16	726 cd	5.89	36.8	11.2	4.00
PD 0111	707 de	5.56	36.2	12.7	4.40
Brycot 350	698 de	6.12	37.1	12.2	4.50
PD 1227	690 de	5.68	39.2	11.1	4.75
PD 0251	669 def	6.27	41.3	11.9	4.50
Coker 420	640 efg	6.21	36.8	11.6	4.20
Coker 8103	606 fgh	6.12	37.1	11.4	4.10
Stoneville 1082 ...	584 gh	5.71	34.2	12.8	4.00
Coker 71-511	556 h	6.36	36.2	12.0	4.20
Acala 1517-70	224 i	5.56	35.4	13.2	3.45
Span length (inches)		Colorimeter			Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
DES 06-020-24	1.18	0.57	71.7	9.5	12.6
McNair 2-520	1.16	.54	74.1	9.0	13.1
Mo. 63-277 BR	1.23	.57	71.3	10.1	12.9
Coker 310	1.23	.56	72.0	9.4	12.8
Stoneville 429	1.16	.55	72.1	9.7	13.6
PD 9240	1.21	.58	73.1	9.2	14.4
PD 0113	1.18	.56	74.7	9.4	14.3
Deltapine 16	1.19	.55	74.1	9.7	12.8
PD 0111	1.19	.57	71.5	9.8	13.5
Brycot 350	1.14	.53	73.1	10.0	12.2
PD 1227	1.17	.56	72.3	9.5	13.8
PD 0251	1.21	.58	73.2	9.2	13.5
Coker 420	1.21	.55	70.7	9.7	13.3
Coker 8103	1.23	.56	70.9	10.5	13.2
Stoneville 1082 ...	1.31	.57	72.3	10.4	13.0
Coker 71-511	1.22	.56	71.0	9.6	13.5
Acala 1517-70	1.18	.53	71.3	9.0	13.8

Table 70.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Mo. 63-277 BR	676 a	6.30	38.3	12.4	3.95
McNair 2-520	609 ab	6.30	37.7	11.8	4.40
Coker 8103	548 abc	6.65	38.5	11.7	4.25
DES 06-202-24	509 bcd	6.10	40.3	12.1	4.15
PD 9240	491 bcde	5.60	38.5	10.6	4.00
Deltapine 16	477 bcde	6.05	37.2	10.9	4.10
Coker 310	434 cdef	6.35	39.0	11.4	4.15
Coker 71-511	415 cdef	7.20	38.0	12.2	4.30
PD 0251	398 def	6.05	40.7	11.6	4.60
Brycot 350	389 def	5.80	36.5	11.5	4.25
Stoneville 429	366 def	5.85	37.5	12.5	4.85
PD 0113	350 ef	6.50	37.6	12.2	4.05
Acala 1517-70	327 f	6.50	35.7	13.4	3.60
Coker 420	312 f	6.10	37.7	11.3	4.13
PD 1227	304 f	5.55	39.8	11.0	4.55
PD 0111	303 f	6.45	36.5	12.8	4.20
Stoneville 1082 ...	299 f	5.75	35.8	12.1	4.10

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Mo. 63-277 BR	1.17	0.49	69.4	8.4	11.4
McNair 2-520	1.12	.49	67.6	8.0	10.8
Coker 8103	1.14	.50	70.0	8.6	11.5
DES 06-020-24	1.14	.49	67.4	9.0	10.6
PD 9240	1.16	.51	70.2	8.5	12.6
Deltapine 16	1.12	.46	71.2	8.4	10.7
Coker 310	1.17	.49	67.5	8.8	10.2
Coker 71-511	1.17	.49	68.1	9.5	10.8
PD 0251	1.14	.51	66.9	8.9	10.9
Brycot 350	1.10	.47	69.0	8.3	10.3
Stoneville 429	1.10	.49	66.1	9.2	10.8
PD 0113	1.13	.49	67.1	9.2	11.3
Acala 1517-70	1.10	.49	66.4	8.9	12.0
Coker 420	1.16	.50	67.8	9.0	10.9
PD 1227	1.11	.49	66.4	9.1	12.5
PD 0111	1.14	.48	65.1	9.7	11.6
Stoneville 1082 ...	1.16	.50	68.6	8.9	10.9

Table 71.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 06-020-24	1906 a	5.33	39.2	11.5	4.05
McNair 2-520	1817 ab	5.15	37.3	12.0	4.20
Coker 71-511	1703 bc	5.36	37.5	12.5	4.10
Coker 310	1702 bc	5.01	37.8	11.5	4.00
PD 0113	1698 bc	5.42	38.4	12.5	4.40
Coker 8103	1669 bc	5.74	35.9	12.0	3.85
PD 9240	1660 bc	4.84	38.5	12.0	4.10
Deltapine 16	1644 bcd	5.40	36.1	12.0	4.20
PD 0251	1642 bcd	5.02	40.2	13.0	4.65
Coker 420	1632 bcd	5.17	37.1	12.5	4.00
Mo. 63-277 BR	1584 cde	4.32	37.1	13.0	3.85
Stoneville 429	1516 cdef	5.43	36.4	13.0	4.50
PD 0111	1511 cdef	4.96	36.1	12.0	4.20
PD 1227	1458 def	4.39	39.9	10.5	4.55
Stoneville 1082 ...	1437 ef	4.89	36.3	11.5	4.15
Brycot 350	1367 f	4.96	34.1	13.0	3.85
Acala 1517-70	898 g	5.05	36.8	12.5	3.70

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
DES 06-020-24	1.17	0.55	65.9	6.9	12.6
McNair 2-520	1.17	.56	67.7	6.1	13.4
Coker 71-511	1.21	.58	68.5	6.6	14.1
Coker 310	1.21	.56	68.2	6.4	13.1
PD 0113	1.14	.53	67.1	6.5	13.4
Coker 8103	1.24	.58	70.1	6.2	13.8
PD 9240	1.17	.57	68.0	6.5	13.8
Deltapine 16	1.16	.53	69.7	6.6	12.4
PD 0251	1.17	.55	66.5	6.6	13.0
Coker 420	1.21	.57	67.1	6.2	14.0
Mo. 63-277 BR	1.22	.58	70.8	6.7	13.7
Stoneville 429	1.14	.52	67.8	6.3	13.6
PD 0111	1.17	.56	68.1	6.7	14.2
PD 1227	1.14	.55	67.2	6.3	14.2
Stoneville 1082 ...	1.20	.55	68.1	6.4	13.0
Brycot 350	1.15	.51	69.8	6.6	12.1
Acala 1517-70	1.19	.56	64.7	6.3	15.1

Table 72.--High-quality test: Boll and spinning data for Stoneville, Miss.*

Variety	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	6.34	37.4	12.1	4.70
Coker 310	5.77	37.8	11.9	4.60
Acala 1517-70	5.22	35.0	13.3	3.85
Coker 8103	6.06	35.4	12.4	4.40
Brycot 350	5.50	35.6	11.6	4.65
McNair 2-520	5.76	36.8	12.6	4.75
Mo. 63-277 BR	6.21	36.9	12.6	4.20
PD 0111	5.79	35.4	12.8	4.80
PD 0113	5.50	36.9	12.8	4.80
Stoneville 429	5.68	37.1	12.3	5.50
Stoneville 1082	5.18	34.9	12.4	4.55
Coker 420	5.80	35.1	13.0	4.40
Coker 71-511	6.32	34.8	13.5	4.55
DES 06-020-24	6.06	39.0	12.4	4.80
PD 9240	5.14	37.5	11.6	4.40
PD 1227	5.16	39.5	11.1	5.10
PD 0251	5.64	39.2	13.0	4.70

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Deltapine 16	1.19	0.55	74.7	8.1	12.6
Coker 310	1.24	.57	72.3	8.1	12.3
Acala 1517-70	1.20	.54	71.7	8.3	14.0
Coker 8103	1.18	.54	72.4	7.3	14.1
Brycot 350	1.13	.52	74.5	7.6	12.1
McNair 2-520	1.16	.53	73.6	7.4	13.6
Mo. 63-277 BR	1.18	.52	74.8	7.6	13.8
PD 0111	1.19	.56	72.6	8.1	14.5
PD 0113	1.19	.57	71.7	8.0	13.5
Stoneville 429	1.15	.54	71.2	7.7	12.5
Stoneville 1082	1.19	.54	73.5	8.2	12.7
Coker 420	1.20	.55	71.5	8.3	14.1
Coker 71-511	1.24	.59	70.9	8.7	13.4
DES 06-020-24	1.18	.55	73.6	8.1	12.9
PD 9240	1.18	.56	73.4	7.6	14.4
PD 1227	1.15	.56	72.1	8.0	14.0
PD 0251	1.17	.53	72.6	7.9	13.7

* No yield data available.

Table 73.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	1022 a	5.97	39.9	10.7	4.85
Deltapine 16	986 ab	5.61	39.7	11.6	4.55
PD 9240	948 ab	4.96	39.5	10.8	4.65
Mo. 63-277 BR	903 abc	6.41	39.3	11.3	4.30
Coker 310	870 bcd	5.82	40.8	10.4	4.75
Brycot 350	865 bcd	5.62	38.4	11.1	5.00
PD 0111	863 bcd	5.24	37.4	11.2	4.75
PD 1227	843 bcd	5.31	41.4	10.4	5.25
PD 0251	795 cde	5.83	41.2	11.2	5.10
Coker 71-511	793 cde	6.20	38.6	11.6	4.75
DES 06-020-24	775 cde	5.95	35.4	11.4	4.80
Coker 8103	772 cde	6.40	37.5	10.6	4.65
PD 0113	766 cde	5.23	37.1	10.6	4.50
Stoneville 429	745 de	5.18	39.5	11.7	5.55
Stoneville 1082 ...	741 de	5.14	38.2	11.4	4.65
Coker 420	667 e	5.33	38.7	11.4	4.55
Acala 1517-70	450 f	5.77	37.2	11.7	4.15

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
McNair 2-520	1.17	0.57	74.2	8.3	12.9
Deltapine 16	1.19	.55	75.8	7.9	12.1
PD 9240	1.16	.57	73.2	8.2	14.4
Mo. 63-277 BR	1.19	.56	74.7	8.5	13.3
Coker 310	1.23	.57	73.7	8.3	11.8
Brycot 350	1.17	.54	74.9	8.7	12.4
PD 0111	1.19	.59	72.8	9.1	14.6
PD 1227	1.14	.56	71.8	8.3	13.8
PD 0251	1.17	.55	74.0	8.5	13.0
Coker 71-511	1.20	.57	72.4	8.9	13.4
DES 06-020-24	1.18	.57	72.9	8.4	12.5
Coker 8103	1.18	.57	72.9	8.7	13.5
PD 0113	1.16	.57	73.4	7.7	13.3
Stoneville 429	1.17	.55	72.7	8.7	13.1
Stoneville 1082 ...	1.22	.57	74.7	8.7	12.8
Coker 420	1.20	.57	70.8	9.1	12.9
Acala 1517-70	1.21	.57	74.0	8.5	14.4

Table 74.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 2-520	1067 a	5.24	37.4	10.5	4.30
Stoneville 429	1038 ab	4.98	38.1	11.4	5.10
Deltapine 16	1005 ab	6.17	36.4	11.2	4.80
DES 06-020-24	941 abc	5.25	37.7	11.2	4.55
Coker 71-511	915 abc	5.86	33.4	11.8	4.40
PD 9240	888 abc	4.82	36.6	10.7	4.40
Mo. 63-277 BR	848 abcd	6.06	35.7	12.2	4.30
Coker 420	847 abcd	5.80	36.6	11.0	4.65
PD 0113	839 abcd	5.12	35.6	10.9	4.40
PD 1227	813 abcd	4.90	37.5	10.3	5.00
Brycot 350	778 bcd	5.66	37.1	10.9	4.85
Acala 1517-70	774 bcd	5.38	34.3	11.8	3.80
Stoneville 1082 ...	765 bcd	4.74	35.4	10.9	4.65
PD 0251	758 bcd	5.59	37.5	11.5	4.95
Coker 310	697 cd	5.68	35.7	10.8	4.55
Coker 8103	662 cd	5.83	35.8	11.1	4.15
PD 0111	589 d	5.03	34.2	11.1	4.40

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
McNair 2-520	1.16	0.54	68.2	7.5	12.6
Stoneville 429	1.12	.50	65.0	7.3	11.7
Deltapine 16	1.14	.50	70.7	7.6	11.6
DES 06-020-24	1.19	.54	66.7	7.6	12.3
Coker 71-511	1.19	.55	67.0	7.3	12.6
PD 9240	1.14	.53	68.7	7.2	13.4
Mo. 63-277 BR	1.20	.54	66.0	7.5	12.9
Coker 420	1.21	.57	67.0	7.7	12.7
PD 0113	1.16	.54	68.6	7.3	13.2
PD 1227	1.14	.54	67.2	7.9	13.2
Brycot 350	1.12	.47	68.8	7.4	11.4
Acala 1517-70	1.17	.53	67.6	7.6	14.0
Stoneville 1082 ...	1.15	.49	66.6	7.3	11.7
PD 0251	1.15	.52	68.3	7.3	12.7
Coker 310	1.17	.51	68.1	7.6	12.0
Coker 8103	1.18	.52	67.6	7.0	13.3
PD 0111	1.17	.55	67.3	7.5	13.7

PIMA REGIONAL COTTON VARIETY TEST

Table 75.--Pima test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	722 a	3.46 c	38.6 b	10.6 e	4.37 bc
P-34	699 ab	3.36 d	40.0 a	12.8 b	4.57 a
P-30	658 ab	3.64 b	37.8 cd	13.2 a	4.40 b
P-28	640 abc	3.18 e	36.1 f	12.1 d	4.25 de
P-29	629 abc	3.77 a	38.3 bc	12.2 c	4.20 e
P-35	620 bc	3.58 b	37.7 de	12.9 b	4.31 cd
Pima S-4	553 c	3.85 a	37.2 e	12.4 c	4.30 cd
Pima S-3	439 d	3.78 a	34.9 g	12.8 b	4.03 f

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.34 d	0.68 b	65.4 ab	10.6 a	18.4 a
P-34	1.38 d	.70 b	69.9 a	11.4 a	17.6 c
P-30	1.48 a	.70 ab	64.7 b	11.2 a	16.9 e
P-28	1.40 c	.70 b	67.9 ab	10.9 a	17.3 d
P-29	1.41 c	.69 b	67.5 ab	10.9 a	17.2 d
P-35	1.44 b	.72 a	65.7 ab	11.1 a	18.1 b
Pima S-4	1.41 c	.70 b	68.8 ab	12.5 a	16.8 e
Pima S-3	1.42 bc	.69 b	65.5 ab	11.1 a	16.2 f

Table 76.--Pima test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Wenden, Ariz.	1101 a	3.50 b	38.0 b	11.9 c	4.35 ab
Coolidge, Ariz.	823 b	3.75 a	36.4 d	12.9 a	4.38 a
Marana (Clark farm), Ariz.	802 b	3.54 b	38.2 b	11.8 c	4.26 cd
Marana (Exp. farm), Ariz.	685 c	3.17 c	38.4 ab	10.9 d	4.21 de
Safford, Ariz.	570 d	3.69 a	37.1 c	13.0 a	4.16 e
Phoenix, Ariz.	563 d	3.51 b	35.2 e	12.6 b	4.26 bcd
Fabens, Tex.	451 e	3.77 a	38.9 a	12.5 b	4.42 a
El Paso, Tex.	375 f	3.74 a	38.2 b	13.1 a	4.35 abc
Las Cruces, N. Mex..	211 g	3.52 b	38.0 b	12.7 b	4.33 abc

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Wenden, Ariz.	1.41 cd	0.69 ab	68.5 a	11.2 a	17.3 c
Coolidge, Ariz.	1.45 a	.69 ab	67.7 a	10.8 a	17.8 ab
Marana (Clark farm), Ariz.	1.42 bc	.71 ab	67.5 a	10.9 a	17.8 ab
Marana (Exp. farm), Ariz.	1.41 cd	.70 ab	66.8 a	10.9 a	18.1 a
Safford, Ariz.	1.43 cd	.72 a	67.7 a	10.9 a	17.8 b
Phoenix, Ariz.	1.44 ab	.70 ab	66.1 a	11.2 a	17.5 c
Fabens, Tex.	1.37 e	.69 ab	66.0 a	11.0 a	16.8 d
El Paso, Tex.	1.38 de	.69 ab	65.8 a	11.0 a	16.9 d
Las Cruces, N. Mex..	1.39 cde	.69 b	66.1 a	10.9 a	16.0 e

Table 77.--Pima test: Combined yield, boll, and spinning data for El Paso and Fabens, Tex.; Las Cruces, N. Mex.; and Safford, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	501 a	3.65	39.6	11.0	4.43
P-28	422 ab	3.19	36.4	12.5	4.28
P-34	416 bc	3.43	40.1	13.4	4.62
P-35	415 bc	3.65	37.6	13.3	4.25
P-30	391 bc	3.70	38.4	13.6	4.45
P-29	384 bc	3.84	38.9	12.6	4.13
Pima S-4	348 bc	3.95	38.0	12.7	4.36
Pima S-3	338 c	4.03	35.4	13.3	4.01

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.31	0.66	65.3	10.8	18.0
P-28	1.41	.70	64.3	10.7	16.7
P-34	1.35	.71	64.5	11.4	17.1
P-35	1.43	.72	64.8	11.1	17.8
P-30	1.46	.70	64.7	11.0	16.4
P-29	1.38	.69	66.7	10.9	16.9
Pima S-4	1.40	.70	68.5	10.6	16.3
Pima S-3	1.40	.69	64.8	11.1	15.7

Table 78.--Pima test: Combined yield, boll, and spinning data for Phoenix, Marana (Experimental farm and Clark farm), Coolidge, and Wenden, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	926 a	3.29	39.9	12.3	4.53
P-32	900 a	3.31	37.9	10.3	4.33
P-30	871 ab	3.60	37.3	12.8	4.36
P-29	826 ab	3.71	37.8	12.1	4.25
P-28	816 abc	3.17	35.9	11.7	4.31
P-35	784 bc	3.51	37.8	12.5	4.38
Pima S-4	717 c	3.77	36.6	12.2	4.25
Pima S-3	520 d	3.59	34.6	12.3	4.05

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-34	1.41	0.68	66.0	11.5	18.1
P-32	1.36	.70	64.5	10.4	18.8
P-30	1.50	.71	64.7	11.3	17.3
P-29	1.43	.69	68.8	11.0	17.4
P-28	1.38	.69	68.4	11.1	17.5
P-35	1.46	.73	66.3	11.1	18.3
Pima S-4	1.42	.69	69.0	14.0	17.2
Pima S-3	1.44	.69	65.3	11.2	16.3

Table 79.--Pima test: Yield, boll, and spinning data for Fabens, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	561 a	3.68	39.6	10.7	4.50
P-30	493 ab	3.90	39.2	13.7	4.50
P-35	483 ab	3.79	38.6	12.7	4.45
P-28	463 b	3.20	37.3	12.1	4.40
P-34	461 b	3.59	41.1	13.3	4.70
P-29	436 bc	4.03	40.3	12.3	4.20
Pima S-4	381 cd	3.98	39.0	12.6	4.45
Pima S-3	326 d	4.04	36.3	13.1	4.20

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.29	0.66	68.8	10.9	17.9
P-30	1.47	.69	63.5	11.1	16.3
P-35	1.40	.72	64.6	11.2	18.2
P-28	1.41	.69	68.8	10.2	16.1
P-34	1.33	.68	64.2	11.5	16.9
P-29	1.35	.70	65.6	10.8	16.9
Pima S-4	1.39	.71	68.5	10.8	15.9
Pima S-3	1.37	.69	63.8	11.3	16.0

Table 80.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	591 a	3.74	41.5	11.2	4.50
P-28	440 b	3.25	36.7	13.1	4.35
Pima S-4	367 bc	4.06	38.2	12.8	4.40
P-29	365 bc	3.94	38.3	13.2	4.10
P-35	333 c	3.72	37.6	13.8	4.25
P-34	305 c	3.35	39.6	13.8	4.60
P-30	305 c	3.83	38.2	13.7	4.50
Pima S-3	297 c	4.04	35.5	13.4	4.10

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.26	0.65	68.8	10.9	17.7
P-28	1.40	.69	66.5	11.0	16.6
Pima S-4	1.39	.69	67.4	10.6	16.4
P-29	1.36	.67	65.7	11.0	17.3
P-35	1.44	.73	64.5	11.2	18.1
P-34	1.34	.72	63.3	11.7	16.7
P-30	1.44	.70	65.9	11.0	17.1
Pima S-3	1.41	.69	64.8	10.9	15.5

Table 81.--Pima test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	246 a	3.37	39.8	13.3	4.75
P-32	244 a	3.55	39.3	11.3	4.50
P-30	233 ab	3.41	38.7	13.3	4.45
P-29	209 abc	3.58	39.5	12.2	4.05
P-35	201 bc	3.50	36.9	13.5	4.15
P-28	191 bc	3.05	36.1	12.4	4.40
Pima S-3	188 c	3.97	35.5	13.1	3.90
Pima S-4	174 c	3.76	38.4	12.6	4.50

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-34	1.36	0.70	63.8	11.0	16.8
P-32	1.33	.67	68.8	10.7	17.3
P-30	1.44	.67	63.3	11.2	14.9
P-29	1.38	.68	66.2	11.3	15.7
P-35	1.44	.71	65.1	10.9	16.8
P-28	1.41	.72	68.3	10.8	15.9
Pima S-3	1.41	.67	64.3	11.2	14.7
Pima S-4	1.38	.69	68.8	10.4	16.1

Table 82.--Pima test: Yield, boll, and spinning data for Safford, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	651 a	3.43	39.9	13.4	4.45
P-35	642 ab	3.61	37.3	13.5	4.10
P-32	606 ab	3.63	37.9	11.0	4.25
P-28	592 bc	3.29	35.6	12.6	4.00
Pima S-3	540 cd	4.08	34.4	13.6	3.85
P-30	533 d	3.69	37.5	14.0	4.35
P-29	525 d	3.83	37.6	13.0	4.20
Pima S-4	469 e	4.03	36.6	13.0	4.10

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-34	1.39	0.76	66.7	11.5	18.2
P-35	1.46	.74	65.8	11.3	18.7
P-32	1.37	.68	69.8	10.8	19.0
P-28	1.41	.72	68.6	10.7	18.1
Pima S-3	1.41	.70	66.3	11.0	16.6
P-30	1.49	.72	66.2	10.8	17.3
P-29	1.45	.71	69.3	10.8	17.6
Pima S-4	1.44	.72	69.5	10.6	17.0

Table 83.--Pima test: Yield, boll and spinning data for Marana (Experimental farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	750 a	3.06	39.1	9.5	4.25
P-29	745 a	3.36	39.5	10.9	4.20
P-34	742 a	2.92	41.0	11.3	4.45
P-28	705 ab	2.84	36.5	10.9	4.13
P-30	704 ab	3.24	38.3	11.6	4.30
P-35	670 bc	3.13	39.5	11.1	4.30
Pima S-4	642 c	3.43	37.9	11.2	4.15
Pima S-3	526 d	3.38	35.9	11.1	4.00

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.37	0.70	70.0	10.4	19.0
P-29	1.41	.67	69.0	10.9	18.0
P-34	1.37	.71	65.6	11.3	18.3
P-28	1.38	.70	66.9	10.7	18.1
P-30	1.48	.72	63.9	11.2	18.1
P-35	1.43	.71	66.1	11.0	18.5
Pima S-4	1.42	.68	68.1	10.6	17.3
Pima S-3	1.44	.71	65.7	11.1	17.3

Table 84.--Pima test: Yield, boll, and spinning data for Marana (Clark farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	919 a	3.28	39.0	10.0	4.30
P-29	897 ab	3.80	39.1	11.9	4.30
P-34	865 abc	3.41	41.0	12.3	4.60
P-30	840 abcd	3.67	37.9	12.6	4.30
P-28	826 bcd	3.18	37.0	11.6	4.25
P-35	792 cd	3.57	38.7	12.6	4.30
Pima S-4	768 d	3.81	37.8	11.8	4.15
Pima S-3	513 e	3.64	35.5	12.0	3.90

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-32	1.34	0.69	70.3	10.4	18.7
P-29	1.45	.71	68.3	10.9	17.6
P-34	1.41	.73	66.7	11.3	18.1
P-30	1.49	.71	65.3	11.1	17.3
P-28	1.38	.69	67.5	10.7	18.1
P-35	1.48	.75	66.8	11.0	18.6
Pima S-4	1.41	.71	69.1	10.8	17.5
Pima S-3	1.43	.69	66.0	11.3	16.8

Table 85.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-32	1024 a	3.59	37.0	11.0	4.40
P-34	979 a	3.57	39.6	13.0	4.55
P-30	874 b	3.87	37.0	13.7	4.45
P-35	841 b	3.69	37.0	13.2	4.55
P-28	839 b	3.43	34.9	12.8	4.36
P-29	833 b	3.91	35.6	13.1	4.20
Pima S-4	740 c	3.96	35.6	13.2	4.30
Pima S-3	455 d	4.00	33.5	13.6	4.20

Variety	Span length (inches)		Colorimeter R_d	Hunter's <i>b</i> value	Yarn tenacity (cN/tex)
	2.5%	50%			
P-32	1.40	0.73	71.4	10.1	18.7
P-34	1.43	.56	66.9	11.3	18.1
P-30	1.56	.74	64.4	11.2	17.4
P-35	1.48	.73	65.7	11.1	18.7
P-28	1.43	.71	68.5	10.8	18.2
P-29	1.46	.72	69.6	11.0	17.9
Pima S-4	1.46	.71	69.5	10.5	17.3
Pima S-3	1.45	.68	66.3	10.8	16.4

Table 86.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	842 a	3.37	38.1	12.9	4.55
P-32	708 b	3.35	36.3	10.8	4.30
P-30	660 b	3.57	35.8	13.5	4.40
P-29	639 bc	3.84	35.6	13.0	4.20
P-28	550 cd	3.22	33.8	12.1	4.10
Pima S-4	465 de	3.88	34.2	13.0	4.25
P-35	443 e	3.64	35.6	13.2	4.35
Pima S-3	194 f	3.27	32.5	12.7	4.00

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
P-34	1.44	0.72	64.6	11.8	18.3
P-32	1.38	.70	70.1	10.5	19.1
P-30	1.51	.70	63.2	11.5	17.0
P-29	1.46	.71	67.8	11.1	17.4
P-28	1.44	.71	65.3	11.5	17.5
Pima S-4	1.44	.70	67.7	11.2	17.0
P-35	1.45	.72	65.3	11.1	18.0
Pima S-3	1.43	.67	64.7	11.4	15.8

Table 87.--Pima test: Yield, boll, and spinning data for Wenden, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-30	1276 a	3.66	37.8	12.8	4.35
P-34	1204 ab	3.22	40.1	12.2	4.50
P-35	1172 abc	3.56	38.5	12.5	4.40
P-28	1158 abc	3.20	37.7	11.4	4.35
P-32	1098 bcd	3.27	38.4	10.3	4.40
P-29	1015 cde	3.65	38.4	11.6	4.30
Pima S-4	971 de	3.80	37.5	11.9	4.40
Pima S-3	913 e	3.66	35.6	12.5	4.15

Variety	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
P-30	1.47	0.68	66.6	11.3	17.1
P-34	1.40	.70	66.4	11.7	17.7
P-35	1.45	.73	67.6	11.2	17.7
P-28	1.37	.69	68.7	11.2	17.5
P-32	1.35	.69	70.9	10.8	18.5
P-29	1.40	.67	70.0	11.1	16.8
Pima S-4	1.41	.69	70.6	10.8	16.8
Pima S-3	1.44	.69	67.6	11.5	16.5

COMBED-YARN TEST

Table 88.--Combed-yarn test: Fabens, Tex.

Test	Variety			
	Pima S3	Pima S4	Pima S5	P 28
Classer's designation:				
Grade	8	5	6	8
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	15.04	15.74	15.28	16.22
7.4 tex, combed	12.75	13.12	12.38	14.25
Yarn appearance index	110	110	105	100
Yarn imperfections:				
11.8 tex, combed	3	2	2	4
7.4 tex, combed	3	2	2	2
Waste, percent:				
Picker and card	21.2	14.3	17.2	19.5
Comber	18.3	17.0	17.4	18.0
	P 30	P 32	P 34	P 35
Classer's designation:				
Grade	8	6	7	7
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	15.51	17.39	15.28	16.68
7.4 tex, combed	13.12	14.62	13.50	14.25
Yarn appearance index	95	115	115	110
Yarn imperfections:				
11.8 tex, combed	4	2	1	4
7.4 tex, combed	4	1	2	2
Waste, percent:				
Picker and card	16.0	12.2	16.0	17.0
Comber	17.7	15.8	15.9	16.4

Table 89.--Combed-yarn test: El Paso, Tex.

Test	Variety			
	Pima S3	Pima S4	Pima S5	P 28
Classer's designation:				
Grade	8	6	7	8
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	15.04	15.51	15.98	16.45
7.4 tex, combed	13.12	12.75	13.50	14.62
Yarn appearance index	110	115	115	110
Yarn imperfections:				
11.8 tex, combed	4	2	1	3
7.4 tex, combed	3	1	2	4
Waste, percent:				
Picker and card	21.6	14.5	16.5	21.8
Comber	18.6	16.0	16.2	18.2
	P 30	P 32	P 34	P 35
Classer's designation:				
Grade	8	6	8	8
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	15.74	16.68	15.74	16.68
7.4 tex, combed	12.75	14.25	13.12	14.62
Yarn appearance index	105	125	115	110
Yarn imperfections:				
11.8 tex, combed	4	1	2	2
7.4 tex, combed	2	1	1	2
Waste, percent:				
Picker and card	21.4	11.7	20.7	20.3
Comber	20.8	13.9	15.9	17.4

Table 90.--Combed-yarn test: Safford, Ariz.

Test	Variety			
	Pima S3	Pima S4	Pima S5	P 28
Classer's designation:				
Grade	6	4	5	5
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	16.45	16.22	16.92	17.16
7.4 tex, combed	14.25	13.88	16.12	15.00
Yarn appearance index	100	100	100	100
Yarn imperfections:				
11.8 tex, combed	3	2	1	3
7.4 tex, combed	3	1	2	1
Waste, percent:				
Picker and card	10.1	8.8	8.4	9.9
Comber	16.8	18.0	16.8	17.4
	P 30	P 32	P 34	P 35
Classer's designation:				
Grade	4	3	5	4
Staple: 32's inch	46	44	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	16.45	17.86	16.45	20.44
7.4 tex, combed	14.62	15.00	14.62	14.62
Yarn appearance index	95	120	110	105
Yarn imperfections:				
11.8 tex, combed	3	1	1	3
7.4 tex, combed	3	1	1	2
Waste, percent:				
Picker and card	9.6	6.8	7.1	8.2
Comber	17.7	16.3	23.4	16.4

Table 91.--Combed-yarn test: Phoenix, Ariz.

Test	Variety			
	Pima S3	Pima S4	Pima S5	P 28
Classer's designation:				
Grade	7	6	5	7
Staple: 32's inch	46	46	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	15.74	15.98	16.22	17.39
7.4 tex, combed	13.12	13.88	13.50	14.62
Yarn appearance index	100	115	110	100
Yarn imperfections:				
11.8 tex, combed	4	2	1	4
7.4 tex, combed	4	1	2	3
Waste, percent:				
Picker and card	12.8	9.3	7.8	9.4
Comber	19.9	17.7	18.9	18.2
	P 30	P 32	P 34	P 35
Classer's designation:				
Grade	7	5	6	6
Staple: 32's inch	46	44	46	46
Yarn tenacity, cN/tex:				
11.8 tex, combed	16.68	17.16	16.92	17.39
7.4 tex, combed	13.88	14.62	13.88	15.00
Yarn appearance index	95	120	120	100
Yarn imperfections:				
11.8 tex, combed	5	1	1	3
7.4 tex, combed	6	1	2	1
Waste, percent:				
Picker and card	8.5	7.4	8.2	9.9
Comber	19.4	15.9	15.2	16.4

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